

SCIENCE

SB
599
R 382
V.78
ANNUAL INDEXES
n1c
SCIENCE

Review of Agricultural Entomology

1990 Volume 78 Annual Indexes

Continues Review of Applied Entomology – Series A: Agricultural

Includes List of Source Journals

U.I.C.
APR 23 1991
LIBRARY

e World's
ading
ricultural
tabase





C·A·B INTERNATIONAL INFORMATION SERVICES

Wallingford, Oxon OX10 8DE, UK

Telephone: Wallingford (0491) 32111

Telex: 847964 (COMAGG G) Fax: (0491) 33508

Telecom Gold/International Dialcom: 84: CAU001

Acting Director: C.P. Ogbourne BSc, PhD

Chief Managing Editor (Animal Sciences): J.D. Turton BSc, MRCVS, DTVM

Chief Managing Editor (Plant Sciences): P. Wightman BSc

Book Publisher: T.J. Hardwick MA

Accessions Manager: Mrs S.P. Smith BA

Journal Production Manager: Mrs E.V. Storrie

Research & Development Manager: Mrs S.G. Dextre Clarke BSc, MSc, FllnfSc

Review of Agricultural Entomology

A monthly journal prepared from the CAB ABSTRACTS database by the
CAB INTERNATIONAL BUREAU OF CROP PROTECTION
in association with the International Institute of Entomology

Managing Editor

P.R. Scott PhD

Editor of Review of Agricultural Entomology

G.A. Viney MSc

Scientific Information Officers

Entomology

E.D.L. Brooks PhD

S. C. Brown BA

D.S. Buckley PhD

B. Burger BSc

G.A. Viney MSc

A.M. Whittaker MSc

Plant pathology

L.A. Belchich MA, MIL

J.A. Brunt MSc

L.M.F. Charles BSc

P.A. Farnell BSc

Nematology

E.D.L. Brooks PhD

S.F. Siddiqi BSc

A.M. Whitaker MSc

Weed science

N.D. Davies PhD

J.L. Mayall

M.M. Shearer MSc

Editorial Advisory Board

D.G. Bottrell (Manila, Philippines)

D.J. Greathead (Ascot, UK)

K.M. Harris (London, UK)

P.T. Haskell (Cardiff, UK)

T.R. Odhiambo (Nairobi, Kenya)

G.H.L. Rothschild (Canberra, Australia)

The Bureau of Crop Protection (CBCP) is one of 11 Bureaux belonging to the Information Services of CAB International, a not-for-profit, inter-governmental organization which provides a range of professional services in agriculture and allied disciplines throughout the world.

CBCP also prepares *Review of Plant Pathology*; *Weed Abstracts*; *Nematological Abstracts*; *Plant Growth Regulator Abstracts*; and *Seed Pathology and Microbiology*.

For further details of the whole range of CAB International publications and services see back cover.

Orders and enquiries concerning current subscriptions and back numbers of this journal should be sent to the Marketing & Sales Division at the above address.

Disclaimer

The information contained herein, including any expression of opinion and any projection or forecast, has been obtained from or is based upon sources believed by us to be reliable but is not guaranteed as to accuracy or completeness. The information is supplied without obligation and on the understanding that any person who acts upon it or otherwise changes his/her position in reliance thereon does so entirely at his/her own risk.

CAB International does not accept responsibility for any trade advertisement included in this publication.

AUTHOR INDEX

- Aagesen, J. 2946
 Aalbersberg, Y. K. 5796, 6706
 Aarab, A. 10421
 Aarhus, D. G. 11393
 Abakuks, A. 9013
 Abapilla, D. C. 8054
 Abashkin, A. S. 172, 905
 Abass, A. K. 4836
 Abate, T. 639
 Abazarian, B. 4179
 Abbadie, L. 5520, 10486
 Abbaiah, K. 5826
 Abbas, I. 2553, 3617
 Abbas, M. S. T. 1625, 5790
 Abbas, S. R. 11678
 Abbass, A. K. 4529
 Abbazzi, P. 9343
 Abbey, H. M. 4547
 Abbott, W. S. 5398, 6446, 9972, 10377
 Abd-Ellatef, M. A. 10250
 Abdalla, E. F. 3150
 Abdallah, E. F. 3935
 Abdallah, M. D. 3147-3148
 Abdallay, A. 9465, 10484
 Abdeen, S. A. O. 2011
 Abdel-Aal, Y. A. I. 3321
 Abdel-Fattah, M. S. 2905, 3207-3208
 Abdel-Galil, F. A. 280-281, 5744
 Abdel-Gawad, K. H. 280
 Abdel-Hafez, M. M. 3207
 Abdel-Hafez, S. K. 10053
 Abdel-Kader, M. A. 980
 Abdel-Kawi, F. 281
 Abdel-Kawy, A. M. 2011
 Abdel-Megeed, M. I. 3585
 Abdel-Razik, M. 980, 3065, 3911, 4051
 Abdel-Salam, K. A. 3064-3065, 3361, 4064
 Abdel-Wahab, A. E. 10747
 Abdel-Wahed, M. A. 3068
 Abdukayumov, A. K. 587
 Abdul-Kareem, A. 9599
 Abdulla, H. A. 7658
 Abdulla, H. E. 898
 Abdulla, S. A. 627
 Abdullah, M. 9620
 Abdullah, S. A. 848, 6844
 Abdulsalam, K. S. 3585
 Abdurahiman, U. C. 2754, 10668
 Abdurvakhobov, A. A. 2015
 Abe, F. 687
 Abe, K. 9587
 Abe, M. 1026, 1761, 6880
 Abe, N. 7423, 7437
 Abe, T. 1285
 Abe, Y. 1867, 8039
 Abenes, M. L. P. 10623, 11575, 11580
 Aberlenc, H. P. 1000
 Aberoomand, G. H. 3804
 Abeysekara, A. R. 10883
 Abid, H. S. 6272, 8445, 8521
 Abid, S. H. 2326
 Abidi, A. Z. 6864, 11442
 Abiola, F. A. 4195
 Ablin, M. P. 1393
 Abo-Taka, S. M. 777, 5495
 Abood, F. 6600
 Abou-Elela, R. 285
 Abou-Halawa, S. 2176
 Abou-Setta, M. M. 9436
 Aboulfaraj, S. 7497
 Abraham, C. C. 336
 Abraham, G. 8274
 Abraham, M. 2206
 Abraham, V. A. 5697, 9647
 Abrahamson, W. G. 3616, 5571, 6134, 7568, 8170, 9501, 10516
 Abramson, D. 8945
 Abreu, J. M. de 7258
 Abro, G. H. 2798, 5783, 9764
 Abrol, D. P. 2705
 Abu-Zahw, M. M. 2834, 4051
 Abul-Ata, A. E. 10552
 Achik, J. 12006
 Achterberg, C. van 2147, 4536, 10232
 Acosta, F. J. 4613
 Acreman, S. J. 8458
 Acs, G. 6060
 Actes des Colloques Insectes Sociaux 10217
 Adair, R. J. 6641
 Adalla, C. B. 454
 Adam, H. 775, 3835, 3865, 11439
 Adam, L. 7599
 Adam, S. 2048
 Adam, S. E. I. 9885
 Adamo, S. A. 9482
 Adams, A. J. 5910, 8085, 10891
 Adams, D. B. 658, 1666
 Adams, E. S. 11421
 Adams, I. H. H. 10891
 Adams, R. G. 3676, 4761, 10769
 Adamski, D. 3258, 5393
 Adashkevich, B. P. 740, 4469, 11687
 Adashkevich, V. B. 1288
 Addicott, J. F. 8285
 Addison, P. J. 2673, 11600
 Adell, J. C. 11378
 Adeyeye, O. A. 5192, 10158
 Adhikari, M. 11231
 Adhikari, N. 3182
 Adiroubane, D. 5660
 Adis, J. 1859, 7466
 Adityachaudhury, N. 430, 3166, 3696
 Adiyodi, K. G. 10181
 Adiyodi, R. G. 10181
 Adjakloe, R. 6934
 Adler, C. R. L. 9688
 Adler, P. H. 4365, 6410, 8268, 8363
 Adlerz, W. C. 11666
 Adsule, P. G. 11755
 Adukhov, Z. M. 904
 Adylov, Z. K. 11772
 Aeschlimann, J. P. 2685, 3563, 4695, 9014
 Affeltranger, C. E. 8576
 Affi, A. I. 861
 Affi, A. M. 324, 1344, 1521, 2562-2563
 Affi, F. A. 4066-4067, 4186
 Afiji, A. I. 227
 Afshari, M. R. 479
 Afzal, M. 4089, 6050, 6052
 Afzelius, B. A. 2162, 3255, 6068
 Agaev, Z. M. 514, 522
 Agarkov, V. M. 8456
 Agarwal, A. K. 8101
 Agarwal, B. L. 5494
 Agarwal, H. C. 79
 Agarwal, K. N. 9575
 Agarwal, M. L. 2692, 11499
 Agarwal, R. A. 2912, 11451
 Agarwala, B. K. 1307, 1844, 5496, 8432, 10716, 10894, 10978
 Agassiz, D. J. L. 8299-8300
 Agata, M. 3590
 Agbogba, C. 196
 Agee, H. R. 925, 2241-2242, 3303
 Ageeva, L. I. 211, 214
 Agele, S. 3061
 Agele, S. O. 6051, 10048
 Aggarwal, A. 8050
 Aggarwal, K. 1251
 Agnello, A. M. 5731, 8606
 Agnew, C. W. 3889
 Agnihothrudu, V. 4211
 Agnihotri, N. P. 586, 10760, 11766
 Agouunké, D. 563, 6777
 Agrawal, A. 11058
 Agrawal, H. O. 1691, 5841
 Agrawal, M. C. 10099
 Agrawal, P. 296
 Agrawal, R. L. 11054
 Ågren, L. 2214, 6273
 Agricola, H. 9220
 Agricola, U. 6777
 Aguadé, M. 5353, 9280
 Aguda, R. M. 426, 5649, 6733
 Agudelo-Silva, F. 6672
 Aguero, G. de 3880
 Agui, N. 5303
 Aguiar Herrera, L. 1579
 Aguilar, A. M. 10933
 Aguilar, H. 4713
 Aguilar, J. A. D. 10548
 Aguilera, A. 5689
 Aguirre, A. 2549, 7549
 Aguirre, A. I. 3599
 Agwu, S. I. 2700
 Agyen-Sampong, M. 2650
 Agzamova, Kh. K. 741
 Ahamad, K. 735
 Ahearn, G. A. 7356
 Ahern, F. J. 7921
 Ahmad, A. 3210, 11315
 Ahmad, B. A. 7078
 Ahmad, I. 2588, 2649, 2968, 8202
 Ahmad, I. M. 7464
 Ahmad, J. 4296
 Ahmad, K. F. 5605
 Ahmad, M. 11701
 Ahmad, N. 3190, 4194, 10865
 Ahmad, R. 10631
 Ahmad, S. 43, 1063, 5753
 Ahmad, T. R. 2702, 4705, 5721
 Åhman, I. 6421
 Ahmed, A. 11040
 Ahmed, A. A. 194
 Ahmed, A. M. 3069
 Ahmed, I. 11417
 Ahmed, K. 4089, 6050, 6052
 Ahmed, K. N. 1675, 7985, 10025
 Ahmed, M. 440, 10713
 Ahmed, N. 9879
 Ahmed, N. M. 2011
 Ahmed, S. A. 7817
 Ahmed, S. A. S. 10858
 Ahmed, S. E. 1917
 Ahmed, S. M. 6018
 Ahmed, S. N. 7584-7585
 Ahmed, S. U. 7543
 Ahn, S. B. 8297
 Ahohuendo, B. C. 6885
 Ahuja, D. B. 11171-11172
 Ai, S. 7628
 Ai, S. Z. 8360
 Aide, T. M. 10998
 Aigaki, T. 2259, 2263, 2536
 Airey, W. J. 305
 Airi, D. S. 3834
 Airiyan, A. P. 9069
 Aisagbonhi, C. I. 2700
 Aistleitner, E. 3432
 Aiyannathan, K. E. A. 1468, 10609
 Aizawa, K. 1950, 1955, 1960, 5135, 6090, 6094, 6605, 7135, 10062-10063, 11923
 Aizpúrua, C. G. de 8832
 Ajayi, O. 1509, 10636
 Ajmat, M. del V. 11246
 Ajounu, O. 9842
 Ajri, D. S. 1575, 1725, 2007, 7828
 Ajuono, O. 11746
 Akai, H. 6361, 11330
 Akay, M. T. 7107
 Akaya, E. 3708
 Akbani, A. K. 5889
 Akers, R. P. 131
 Akers, D. H. 2389, 7864, 7869
 Ak'habuhaya, J. 4223
 Akhatov, A. K. 213, 1277, 11408
 Akhmedova, L. F. 3205
 Akhtar, M. H. 3179
 Akhtar, M. S. 2527, 4917, 11043
 Akhtar, S. 10773
 Akhtar Husain 6222
 Akhyani, A. 566
 Akimoto, S. I. 9940
 Akimov, G. A. 2028
 Akimov, I. A. 1263, 4156, 5482
 Akin, D. 11475
 Akingbohunge, A. E. 651, 11717
 Akins, R. G. 7101
 Akinwumi, B. 9842
 Akiyama, Y. 2654, 3564, 5371
 Akopyan, A. G. 9046
 Akopyan, L. A. 3587
 Akre, R. D. 6224, 6276, 7428
 Aksent'ev, S. I. 4036
 Akutu, K. 10075
 Al-Abbasi, S. H. 8551-8552
 Al-Adhamy, B. W. 7980
 Al-Amidi, A. H. K. 8668
 Al-Amri, A. A. 11776
 Al-Ani, R. A. 8695
 Al-Azzawi, M. J. 7980
 Al-Darkazly, T. A. 5163
 Al-Fadhil, F. H. 8695
 Al-Hakkak, Z. S. 163, 866, 1707, 7980
 Al-Hamadini, R. 7078
 Al-Hamdany, M. A. 1723
 Al-Hitty, A. 4529
 Al-Izzi, M. A. J. 5483, 11357
 Al-Jamil, S. K. 4565
 Al-Jubori, A. D. 8705
 Al-Kassis, W. F. 5596
 Al-Maadhidhi, J. F. 11022
 Al-Maffiti, S. A. 121
 Al-Maliky, S. K. 5483, 11357
 Al-Mallah, N. M. 848, 4565, 5736, 6990, 7731
 Al-Rawi, F. I. 1707
 Al-Robai, A. A. S. 174
 Al-Rouz, H. 6941, 10840
 Al-Sufi, A. A. K. 866
 Al-Taweel, A. A. 10382
 Al-Zubadi, A. N. O. 5162
 Alagarsamy, G. 7853
 Alagesan, P. 2855
 Alahiotis, S. N. 1117
 Alam, M. M. 9887
 Alam, M. S. 442
 Alam, S. 7984
 Alatorre-Rosas, R. 11911
 Alauzet, C. 8838
 Alba, J. V. 133
 Albajes, R. 389
 Albert, P. J. 9992
 Albert, R. 3965, 11780
 Alberti, G. 6068
 Albornoz, J. 136
 Albrecht, A. 3544
 Albuquerqu, G. S. 5908
 Albuquerque, M. O. 1859
 Aldergazali, T. A. 5162
 Alders, K. 8315
 Alderweireldt, M. 4693
 Aldon, E. F. 10515

- Aldrey, J. L. N. 4988, 11473
 Aldrich, J. R. 248
 Alebeck, F. A. N. van 7286
 Alegbejo, M. D. 9856
 Alekhin, V. T. 322, 3897
 Alekseeva, E. S. 6702
 Alemán, J. 10253
 Alenchikova, T. F. 216
 Alers, M. P. T. 8344
 Alexakis, A. 9205
 Alexander, L. 3759
 Alexander, W. L. 4619
 Alexandri, M. P. 8481
 Alfaro, J. A. 10067
 Alfaro, R. I. 10938, 11265
 Alfaro García, A. 8454
 Alford, A. R. 7823, 9107
 Ali, A. 2755, 9884
 Ali, A. A. 4836
 Ali, A. B. M. H. 697-698
 Ali, A. E. B. 8523
 Ali, A. M. 3069
 Ali, A. S. A. 898, 4529, 5162-5163
 Ali, A. W. M. 7817
 Ali, M. A. 5721
 Ali, M. F. 7474
 Ali, M. I. A. 1838
 Ali, M. I. M. 11004
 Ali, N. A. 7167
 Ali, S. I. 3713, 6282
 Ali, A. D. 8906
 Alibekova, Ch. 10867
 Aliev, A. A. 173
 Alikhanov, Sh. A. 1171
 Aliniaze, M. T. 3772, 11645
 Alizadeh, M. H. Safar 391
 Ali, J. N. 2924, 8340, 8715, 11940
 Allais, J. P. 790
 Allan, D. J. 7459
 Allard, G. B. 4145, 6694
 Allchin, C. R. 7206
 Allegro, G. 5966, 11269
 Allegrucci, G. 1142
 Allemand, R. 5258
 Allen, D. C. 9937
 Allen, G. R. 8915
 Allen, G. W. 2363, 2492
 Allen, J. A. 4462, 10325
 Allen, J. C. 4477
 Allen, M. F. 11910
 Allen, P. G. 6016, 6759
 Allen, T. F. H. 11124
 Allen, W. A. 8061
 Allen-Williams, L. 10561
 Allender, W. J. 10038
 Aller, W. C. 994
 Alli, I. 7379
 Allies, A. B. 11422
 Allomasso, R. 11746
 Allred, D. B. 4733
 Allsopp, P. G. 805, 1195, 3646, 8200
 Alm, S. R. 5725, 8564, 11630
 Alma, A. 2604
 Almaas, T. J. 3295, 8235
 Almarales, P. 5637-5638
 Almaz, M. M. 1407, 2834, 8092
 Almazan, L. P. 10619
 Almazan del Olmo, O. 8984
 Almeida, A. A. de 7096
 Almeida, L. C. de 4605
 Almeida, L. M. 1036, 5800
 Almeida, T. H. M. 6958-6959
 Almeida Couto, L. 4466
 Almela, J. B. 1755
 Almenda, A. A. de 5096
 Almogi-Labin, A. 2691
 Aloni, R. 5921
 Alonso-Zarazaga, M. A. 15
 Aloyan, G. A. 11991
 Alphen, J. J. M. van 6936-6937, 7512
 Alrubeai, H. F. 5756
 Alsina, A. 4452
 Alstein, M. 83
 Altares, M. 1574
 Altenhofer, E. 3571
 Altieri, M. A. 711, 4890, 5160, 6863, 11747
 Altman, D. W. 11167
 Altman, J. S. 9184
 Altstein, M. 1088, 2220
 Aluja, M. 3458, 8636, 9698, 9732
 Alvarado, E. 4906
 Alvarado, E. A. 7582
 Alvarado, L. J. 9549
 Alvardao, M. 5806
 Alvarenga, J. C. 3053
 Alvarez, C. 5860
 Alvarez, C. D. 9725, 10725, 10734
 Alvarez, C. E. 1574
 Alvaro, R. 11196
 Alverson, D. R. 6824, 11633
 Alves, A. de P. 7922
 Alves, R. T. 4860
 Alves, S. B. 6512, 6684, 8322, 8971, 8982, 10056
 Alves de Lima, C. C. 4710
 Alves Junior, V. V. 6525
 Alves Pinto, J. C. 4358
 Aly, M. I. 10855, 11222
 Alyousef, E. F. 1672
 Alzouma, I. 10797
 Alzugaray, M. del Rosario 7614
 Amador, O. 5532
 Amaldoss, G. 2301, 5279
 Amano, H. 8586
 Amato, F. 9664
 Ambekar, J. S. 7830
 Ambrašić, M. 10500
 Ambrogioni, L. 6820
 Ambrose, D. P. 5493, 8348
 Ambrose, J. T. 10431
 Ambrus, A. 8851
 Ameen, M. 7330
 Amelsvoort, P. A. M. van 5354
 Amemiya, Y. 11318
 Amer, S. A. A. 2583, 7185
 American Bee Journal 7287
 Ames, B. N. 7208
 Ames, R. G. 8099
 Amin, A. H. 174, 4565, 7078
 Amin, K. S. 6901
 Amin, M. A. 1921
 Amir-Nazari, M. 3649
 Amirov, R. M. 8119
 Amisi, J. 3140
 Amlak, A. Gebre- 407
 Amma, A. M. K. 10741
 Amman, G. D. 1788
 Ammar, E. D. 3109, 10552
 Amodio-Cocchieri, R. 10132
 Amonkar, S. V. 9821, 10078
 Amorim Neto, M. S. 4901
 Amos, J. N. 8436
 Ampofo, J. K. O. 2629
 Amri, A. A. Al- 11776
 Amrine, J. W., Jr. 10506
 Amson, M. 2946
 An, G. H. 5893
 Anand, L. 629
 Anand, M. 7976, 9075, 11410
 Anand, R. K. 3919
 Anandaraj, M. 9508
 Ananthakrishnan, T. N. 2168-2169, 2468, 4813, 6353
 Anastasi, A. 7365
 Anber, H. A. I. 10437
 Anchev, E. 8462
 Ancora, G. 6189
 Anderbrant, O. 801, 3015, 5011, 8918, 11839-11840, 11849-11850
 Andersen, A. 5610
 Andersen, J. 2330, 4391, 10347
 Andersen, J. F. 1086
 Andersen, S. O. 1065, 1092, 3284
 Anderson, C. E. 7450
 Anderson, C. L. 5299
 Anderson, D. B. 784, 7569
 Anderson, D. L. 871
 Anderson, H. 3268
 Anderson, J. C. 4220, 10159, 11981, 12012
 Anderson, J. E. 9038
 Anderson, J. F. 3286, 4305, 6442
 Anderson, K. 10041
 Anderson, M. 2230, 9761
 Anderson, N. H. 11045
 Anderson, P. 1595, 9182
 Anderson, P. R. 6779
 Anderson, R. C. 10054
 Anderson, R. S. 8201, 11373
 Anderson, S. O. 184
 Anderson, S. S. 3616, 5571, 10516
 Anderson, T. E. 2873, 7183
 Anderson, W. W. 6374
 Andersson, K. 2195, 2801
 Ando, H. 4259
 Ando, T. 3331
 Ando, Y. 7684
 Andow, D. A. 8342, 10518
 Andrade Fontes, R. de 3053
 Andrés, S. 11221
 André, J. F. 911
 Andreadis, T. G. 11008
 Andrews, K. L. 640, 2637, 3603, 4634, 5228, 8516
 Andriès, J. C. 1048
 Andrikovics, S. 2369
 Aneja, K. R. 8050
 Ang, C. 10129
 Angeles, E. R. 10616
 Angeles Martinez, M. de los 10546
 Angelici, M. C. 1142
 Angelini, F. 10004
 Angellotti, J. E. 5109
 Angerilli, N. P. D. 11048
 Angioy, A. M. 3253
 Angulo, E. 7548, 9216
 Anilkumar, T. B. 11203
 Anio'e, S. C. 3843
 Anisimov, A. I. 2286, 2328, 4353, 7239
 Anjaneyulu, A. 2644, 9583-9584, 11567
 Anjos, N. dos 7922
 Anju Chandra 9731
 Anjum, F. 7174
 Annadurai, R. S. 1709
 Annapoorani, A. 7808
 Annapoorani, P. 7809
 Annala, E. 1784
 Annual Report - Central Tobacco Research Institute, India 6985
 Ansari, A. K. 5812
 Ansari, M. A. 7584-7586
 Anstee, J. H. 2269
 Antal, A. 11995
 Antervo, K. 2018
 Antignus, Y. 1711
 Antigua, G. 1462
 Antonelli, A. 3963
 Antonin, P. 5704, 5707-5708, 8575
 Antunes-Madeira, M. C. 2051
 Antwerpen, R. van 3285
 Anup Kumar 6222
 Anurakpongsatorn, P. 9751
 Anwar, M. 11034
 Anwarullah, M. 863
 Anyango, J. J. 9513
 Aoki, S. 3022, 9939
 Aoki, T. 9217
 Aoyama, S. 4832
 Apeles Dias, M. 9125
 Aponte, O. 3724
 Appel, A. G. 6603
 Appelgren, M. 8835
 Appert, J. 4227
 Appiah-Kwarteng, J. 4065
 Applebaum, S. W. 6359, 7333, 10311
 Apriyanto, D. 5625, 8475
 Aquavella, J. 7385
 Aquilina, J. 11185
 Aquino, A. R. L. de 4666
 Aquino, G. B. 5664
 Arab Journal of Plant Protection 10204
 Arab Society for Plant Protection 4441, 4603-4604, 4652, 6025
 Arabale, V. D. 6295
 Arai, N. 9213
 Arakaki, N. 1426
 Arakawa, K. Y. 8914
 Arakawa, T. 6869
 Arango, G. 11406
 Arango-Bernal, L. G. 583
 Arantès, O. 8976
 Arapova, L. I. 690
 Arashiro, F. Y. 3464, 3817, 3931, 6838, 6957
 Araújo, A. D. 9616
 Araújo, A. D. de 8531
 Araújo, J. A. C. 9548
 Araújo, J. A. C. de 8479
 Araújo, J. R. de 4605, 8448
 Araújo, S. M. C. 9548
 Aravindakshan, M. 10173
 Araya, E. 3388, 3709
 Araya, G. A. de 10932
 Araya, J. 4512
 Araya, J. E. 2605, 3084, 3729, 8465, 8663
 Arbas, E. A. 7371, 10289
 Arbea, J. I. 1175
 Arbogast, R. T. 3052
 Arbous, A. G. 5754
 Arce, J. J. C. 816
 Arce Gomez, S. 4860
 Archer, M. E. 2492-2493
 Archer, T. L. 1506, 2665, 10593
 Archibald, D. E. 2509, 8603, 10699
 Archibald, R. D. 4384
 Archibald, S. O. 8924
 Arcy-Burt, S. d' 2349
 Areekul, S. 7579
 Aref'ev, V. A. 3471
 Areje, C. A. 593
 Areshnikov, B. A. 373
 Argaman, Q. 1322, 4974
 Argandoña, V. 367
 Argandoña, V. H. 10578
 Argano, R. 9367
 Argentina, Instituto Nacional de Tecnología Agropecuaria 2079
 Argentine, J. A. 5191, 10117
 Arias, E. 5637-5638
 Arias Giralda, A. 6228
 Arida, G. S. 7642, 7646, 10619
 Arif, B. M. 1962
 Arima, R. 3331
 Arioglu, H. H. 1664
 Arita, L. H. 766, 3382
 Arita, Y. 9148
 Arivanam, M. 7031
 Arjumand, S. S. 6159
 Armas Garcia, J. L. 428
 Armbrust, E. J. 4699, 11604
 Armes, N. J. 3890, 8926, 10806
 Armíñán, J. 8451
 Armstrong, A. M. 1669, 1714
 Armstrong, E. 6086
 Armstrong, J. W. 11893
 Armstrong, K. F. 10700
 Armstrong, L. 344
 Arn, H. 2227, 4238, 7727
 Arnac, M. 10150
 Arnason, J. 8373
 Arnason, J. T. 2628, 4228, 4642, 7983, 10539
 Arndt, E. 7439
 Arndt, R. 679
 Arne, C. N. 2382
 Arnese, A. 10132
 Arnett, R. H., Jr. 8171, 9166
 Arnold, C. Y. 4735
 Arnold, M. D. 7868
 Arnold, M. K. 889
 Arnold, M. L. 181
 Arnold, W. M. 5287
 Aron, S. 7487, 10416

Aronov, I. B. 3319
Arora, B. B. 974
Arora, B. S. 2666
Arora, J. S. 6997
Arora, K. 9274
Arora, P. K. 9753
Arora, R. 1728
Arora, R. S. 6970
Arora, S. K. 1497
Arora, U. 964
Arrendale, R. F. 708, 6930
Arretz, P. 4512, 4876, 5690
Arretz, P. V. 8663
Arrinda, C. 5532
Arru, G. M. 3994
Arruda, A. C. de 4866-4867
Arsequell, G. 2211, 2219, 11308
Arthur, A. P. 6705, 6867, 8767
Arthur, F. 6046
Arthur, F. H. 11030, 11895
Arthur, M. F. 9085
Artigues, M. 389
Arunachalam, K. D. 11225
Arunachalam, S. 10268
Aruta, C. 8985
Arutyunyan, E. S. 2744, 5694
Arutyunyan, R. G. 3779
Arx, R. von 8936, 11744
Ary, M. B. 3474
Arya, L. S. 1841
Arzone, A. 2604
Asada, N. 3417
Asai, I. 5645
Asai, W. K. 523
Asakura, T. 6296, 10493
Asandhi, A. A. 594
Asche, M. 2135, 3910, 7310
Ascher, K. R. S. 190, 3175, 5082, 10601
Asero, C. 6831
Ashaibi, Y. M. 11195
Ashburner, M. 3355
Ashby, M. D. 11363
Asher, M. J. C. 8728
Ashford, M. L. J. 8245
Ashley, R. A. 6629, 10769
Ashley, T. R. 4634, 5228, 9365
Ashman, W. P. 9030
Ashmed, M. S. 11051
Ashok Sharma 6222
Ashour, S. A. 11195
Ashtaputre, K. R. 6948
Ashworth, R. B. 3447
Asian Vegetable Research and Development Center 2119
Asis, J. D. 5363
Askew, R. R. 4041
Aslam, M. 10786
Aslanyan, G. Ts. 2050, 11991
Asnawi, Z. 10530
Aso, Y. 1093
Aspinall, R. J. 154
Asquith, A. 3258, 7513
Assadi, H. B. 6112
Assaggaf, A. I. 174
Assche, C. van 8117
Assefa, M. 852
Asselin, A. 4527
Assem, J. van den 2503, 3561, 4487
Asteraki, E. J. 6758
Asuan, K. 5900
Asyakin, B. P. 1622, 10763
Asztalos, B. 2031, 11201
Ataai, M. M. 6077
Atachi, P. 6885, 9795, 10602
Atallah, Y. H. 10147
Atanov, N. M. 4729
Atchison, G. J. 10131
Athanias, M. M. 3901, 4880
Athe, T. V. 9815
Athey, L. A. 8889
Athias-Binche, F. 3402, 4531
Atiemo, M. 11994
Atkins, G. 6331
Atkins, S. 6331
Atkinson, A. E. 8033
Atkinson, J. 2628, 8373
Atkinson, P. R. 365, 4010, 5590
Atkinson, R. C. 9239
Atkinson, T. H. 630, 7043, 9329, 9962, 9965, 10010
Atlegrim, O. 7714
Atropo, P. K. 3879
Atroshchenko, G. P. 702
Atsatt, P. R. 1814
Attathom, S. 7881
Attathom, T. 7881
Attia, A. A. 553, 574, 650
Attia, M. B. 4768
Attygalle, A. B. 1234, 3440
Atul Chandra 9731
Atwal, A. S. 6497, 7237
Aubert, B. 7745
Audemard, H. 5238, 9697
Auden, J. A. L. 6111
Audisio, P. 8298
Audisio, R. 4622, 4859, 6764, 6890
Audsley, N. 6321-6322, 11321
Audubert, A. 11244
Auerbach, M. 3990
Auger, J. 235, 721, 4074, 7111, 10748
Auger, M. 8865
Augier, R. 6360
Augustin, S. 4031, 5988
Aukema, B. 1878, 3426, 4415, 6526, 8303, 8868
Aulino da Silva, O. 11425
Auricht, G. C. 6768
Austin, A. D. 263, 5959, 5983, 8915, 10509
Austin, D. F. 6667
Australia, Banana Growers Federation Co-op Ltd. 7758
Australia, Department of Agriculture, Western Australia 11280
Australia, Department of Primary Industries and Energy 1969
Australia, Sunraysia Horticultural Research Institute 9132
Autar, M. L. 893
Autrique, A. 7590
Avakyan, A. Kh. 11991
Avanzati, A. M. 3018
Avar, K. 8970, 9782
Avasthy, P. N. 2469, 2592, 6685
Avé, D. A. 2884
Averill, A. L. 5013
Avery, S. W. 1956, 1959, 5139, 7126
Avigdor-Avidov, H. 3909
Avila, C. J. 8691, 9780
Avila, J. M. 1211, 1359, 8398
Avila, M. J. 389
Awad, O. A. 11207
Awadallah, K. T. 227, 860-861
Awal, M. Modarres 175
Awan, M. S. 3507, 3744
Awasthi, M. D. 629, 10731
Awgulewitsch, A. 6381
Ayad, F. A. 1672, 2905
Ayala, F. J. 4276
Ayala Sifontes, J. L. 428, 1746
Ayers, G. 6177
Ayora, F. 9732
Ayre, G. L. 9886
Ayres, M. P. 2319
Ayvali, C. 11179
Ayyangar, G. S. G. 11526
Ayyar, K. S. 5919
Ayyildiz, N. 3404-3405
Azam, K. M. 3888, 8362, 8570
Azam Khan 11027
Azeez Basha, A. 10607
Azhar, I. 8792
Azhbenov, V. K. 2619
Azim, M. N. 3244
Aziz, S. A. 2593, 4296
Azizbekyan, R. R. 8020
Azmeh, F. M. 5596
Azuma, K. 4907, 10770, 10851
Azuma, M. 6366, 10267
Baader, A. 9369
Baan, H. E. van de 1565, 2745, 8623-8624
Bååth, E. 10155
Baba, K. 3394
Bababekov, K. 741
Babault, M. 7397
Babcock, J. M. 2680
Babenko, A. S. 3421
Babler, T. 1066
Babu, G. R. V. 5201, 7545
Babu, J. R. 7183
Babu, K. R. 8401
Babu, K. S. 3176
Babu, P. B. S. 6288
Babu, P. C. S. 438, 2846, 3700, 3727, 3727, 6739, 6889, 7631, 7662, 9765, 9781, 10610
Babu, S. C. 8147
Babu, T. R. 3176, 8570
Baby, T. G. 32
Baccetti, B. 2262, 3246, 5259
Bach, C. 5600
Bacheler, J. S. 10860
Bächler, M. 10988
Backeljau, T. 4491
Backholer, J. R. 6491
Backman, C. B. 9816, 10810
Backus, E. A. 2382, 3742, 4697, 8541-8542, 10649
Badenhausser, I. 4851
Badertscher, S. 9461
Badiali, G. 8807
Badii, M. H. 9646
Badonnel, A. 11003
Bădulescu, P. 4573
Bae, Y. H. 4670
Baehrecke, E. H. 4308, 9876
Baek, S. B. 22
Baenziger, P. S. 4618
Baert, L. 11455
Baêta dos Santos, A. 4666
Báez, M. 11395
Baganich, M. I. 792
Bagchi, G. D. 2580
Baggio, D. 859, 6266
Baghdassarian-Chalaye, D. 3271, 11336
Baghel, B. S. 1585
Bagine, R. K. N. 5506, 6598
Bagneres, A. G. 10405
Bagshaw, J. S. 3827
Bagyaraj, D. J. 11204
Bahador, M. 391
Bahadur, J. 601, 2793, 5322
Bahagiawati, A. H. 8513
Bahjou, A. 4301
Bährmann, R. 9613
Bai, B. 8393
Bai, L. X. 3943, 4934
Bai, M. G. 9474
Bai, N. R. 5658, 5661
Baicu, T. 5174, 6101
Baier, B. 11113
Baier, T. 6207
Baig, M. 11497
Baig, M. A. 7574
Bajjnath, H. 9931
Bailey, P. T. 6521
Bailey, S. E. R. 308, 316, 612, 705, 950, 2548
Bailey, W. J. 9228, 10298
Baillod, M. 4722, 5700, 5704, 5707-5708, 6228, 8575
Bailowitz, R. A. 3414
Bain, O. 8323
Bainbridge, B. W. 6072
Baines, R. A. 10287-10288
Bainley, Y. 3238
Bains, S. S. 6691, 9920
Baird, C. 7428
Baird, C. R. 6672
Baixeras, J. 1756
Baixeras Almela, J. 1755
Bajaj, K. L. 9855
Bajaj, P. 3329, 7377, 11325
Bakchine, E. 2488
Baker, E. A. 7704
Baker, F. C. 1120
Baker, G. H. 369
Baker, I. 2977, 10338
Baker, J. E. 4061-4062, 5090, 6351, 8925, 11879
Baker, J. R. 10904
Baker, M. J. 7257
Baker, P. B. 10771
Baker, P. S. 767-768
Baker, R. 7346
Baker, T. A. 6049
Baker, T. C. 1077, 1161, 4724, 6306, 6976, 7369, 7734, 9872, 10340, 11407
Bakhetia, D. R. C. 9774
Bakhtawar, P. M. 6614
Bakke, A. 7929, 11853
Bakker, R. J. 10634
Bakó, Z. 8592, 11832
Bakonyi, G. 7247
Baković, M. 11742
Bakowski, T. 4630
Bakre, P. P. 8141
Bakry, N. S. 10855
Bakthavathsalam, R. 8094
Bakuniak, E. 3174
Bal, A. B. 3720
Bal, R. S. 6691
Bala, S. 11368
Balabaskaran, S. 1123
Balakov, I. P. 8934
Balamani, E. 11175
Balamurugan, P. 8753
Balan, J. S. 2888-2889
Balandrin, M. F. 7177
Balashova, E. K. 2015
Balasubramaniam, S. 9498
Balasubramanian, G. 2651, 2664, 3164, 3714, 6740
Balasubramanian, M. 849, 883, 3164, 4059, 10607, 12010
Balasubramanian, S. 2652, 5586
Balasubramaniyan, P. 9577
Balaŷy, S. 4037
Balbiani, A. 5895, 9888-9890
Balcha, A. 1582
Balciunas, J. K. 9492
Baldaia, L. 11336
Balderson, J. 189
Baldizzone, G. 6258
Baldt, A. F. 4666
Baldwin, I. T. 3945, 5898
Bale, J. S. 38-39, 783, 6439, 8266, 8535, 9251
Bale, M. J. 1965
Bálint, Z. 2370
Balkov, V. I. 923, 2385
Ball, B. V. 11910
Ball, E. E. 84, 3473, 10291-10294
Ballal, A. S. 5585
Ballal, C. R. 2886, 4530, 5466, 6561, 8370
Ballal, R. 8386
Ballan-Dufrancais, C. 8258
Balletto, E. 8302
Ballini, R. 4311
Ballmer, G. R. 2159, 9643, 11500
Balmer, J. 3338
Baloch, U. K. 5655, 5760, 11027
Balocii, U. K. 11037
Balogh, J. 10179
Balogh, P. 10179
Balraj Singh 6904, 9777
Balsbaugh, E. U., Jr. 11393
Balsberg Pålsson, A. M. 10155
Balu, A. 2478
Baluch, A. A. 984
Balwinder Singh 8088
Ban, P. M. 11481
Band, H. T. 3786, 10711
Bandara, B. M. R. 1412, 9498-9499
Bandyopadhyay, A. K. 7654
Bandyopadhyay, R. 7657

- Banerjee, B. 3953
 Banerjee, M. 8120
 Banerjee, M. K. 1717, 2885
 Banerjee, S. 4445
 Banerjee, S. K. 2611, 8701
 Banerjee, T. C. 168, 11462
 Banerjee, T. K. 2887
 Banerji, A. 10162, 11238
 Bangun, P. 6722
 Bank, R. A. 8406
 Banks, H. J. 12034
 Banks, W. A. 4449, 6514, 6516
 Banner, S. E. 3299
 Banno, H. 8442, 9934
 Banno, Y. 2274
 Banta, P. A. 10498, 10503
 Banta, S. 1684
 Banthorpe, D. V. 6217, 7574
 Banttari, E. E. 11060
 Banville, G. 505
 Banzatto, D. A. 9548
 Bao, A. D. 10620
 Bao, X. Z. 2321
 Bapat, D. R. 459-460, 1499, 1501, 7660-7661
 Baptista, F. C. 10379
 Bar-Joseph, M. 6829
 Bar-Zakay, I. 5172
 Baragaño, J. R. 7020
 Barah, A. 3596, 4557
 Barak, A. V. 4424
 Baraldi, G. 6138
 Baraniak, E. 3752, 7442
 Baranowski, R. M. 2779, 6841, 11591
 Baraud, J. 5255
 Barba, A. 4719
 Barbagallo, S. 11902
 Barbattini, R. 3536, 11540, 11542, 11609
 Barbehenn, R. V. 5225, 10893
 Barber, J. T. 1228
 Barbercheck, M. E. 11914
 Barbier, R. 5452
 Barbieri, L. 9105
 Barbieri, R. 3323, 8565, 9660
 Barbina, M. T. 7968
 Barbo, C. V. S. 1656
 Barbosa, L. J. 8480
 Barbosa, P. 1493, 1526-1527, 7965, 8827, 8887-8888, 9804
 Barbosa, S. M. L. 4710
 Barbour, J. D. 9215
 Barbour, K. S. 10860
 Barbulescu, A. 4570-4571, 4646, 7601
 Barceló, D. 9349
 Barclay, H. J. 279, 7163, 11412
 Barducci, S. 2704
 Bareth, S. S. 5099, 11032
 Barfield, C. S. 2637, 6893, 8712, 11683
 Barfoot, P. D. 7799
 Barham, P. J. 10354
 Bariola, L. A. 10862
 Barker, G. M. 474, 2673, 7547, 7681, 10638, 11594, 11600
 Barker, J. F. 5870, 7850, 10252
 Barker, J. S. F. 128
 Barkóczi-Sápi, M. 11831
 Barlow, N. D. 7682
 Barman, A. C. 7543
 Barman, M. A. E. 7503
 Barnard, E. A. 2289
 Barnby, M. A. 3169, 5220
 Barnes, B. N. 495, 2724, 8615
 Barnes, C. L. 8016
 Barnes, M. M. 6800, 7720, 9669-9670, 9791
 Barnett, B. D. 9023, 11915
 Barnett, E. A. 11485
 Barnett, P. G. 9079
 Barnett, W. W. 523, 6801, 8577
 Barney, R. J. 4698
 Barone, E. 9745
 Baroni-Urbani, C. 5437
 Baronio, P. 177
 Barooti, S. 493
 Barra, J. A. 6438, 9272
 Barrat, B. I. P. 471
 Barratt, B. I. P. 309, 327, 356, 466, 8849
 Barre, P. 4566
 Barredo, M. J. V. 7207
 Barrenechea, M. A. 9190
 Barrera, J. F. 767
 Barrera, P. 6356
 Barrett, B. A. 9687
 Barrett, R. A. 11349
 Barria, G. 4732
 Barrientos, V. 3724
 Barrigossi, J. A. F. 1637-1638, 4845-4846
 Barrion, A. A. 1132, 3725
 Barrion, A. T. 443, 447, 3732, 7639, 10627
 Barron, J. R. 9018
 Barrón Contreras, J. L. 402
 Barros, E. G. 1177
 Barros, S. B. M. 9077-9078
 Barros Mendes, A. C. de 4949
 Barrows, E. M. 4996, 5461
 Barry, B. D. 2624, 8490
 Barry, D. 9569
 Barry, E. F. 11140
 Barry, P. J. 7949
 Barse, J. R. 1583
 Barstow, B. B. 2919
 Barszcz, E. S. 8734
 Barták, M. 3788
 Bartel, D. L. 2881
 Bartelloni, A. 11118
 Bartels, J. 10005
 Bartelt, R. J. 6441, 7158, 7189, 8233
 Barth, F. G. 4524-4525
 Barthés, J. 3794
 Bartholomew, G. A. 205
 Barthová, J. 8109
 Bartlett, A. C. 6376, 6964
 Bartley, E. 695
 Bartnicka, B. 1324
 Bartninkaitė, I. 3119
 Bartninkaitė, I. S. 3119
 Bartolozzi, L. 2350, 9343, 9957
 Barton, A. E. 9034
 Bartózyński, R. 4474
 Barwal, R. N. 2879, 3842
 Barzakay, I. 9723
 Basalingappa, S. 4549, 5436, 6596
 Basappa, H. 11487
 Basarkar, P. W. 10496
 Basedow, T. 368, 680
 Bashamohideen, M. 2049, 8121
 Bashford, R. 10965, 11252
 Bashir, M. O. 4701, 9489
 Bashiruddin, J. B. 1944, 4706
 Baskaran, P. 4661, 6233, 8349, 10268
 Baskaran, S. 6855, 11309
 Baskar, P. 7896
 Basky, Z. 1745
 Bass, L. 6086
 Basselier, J. J. 11042
 Bassi, R. 7718
 Bassi, S. 10478
 Bässler, U. 9218, 9224, 9229
 Bassols, I. 9330
 Bastian, A. 9582
 Bastian, R. A. 8902
 Bastmeyer, M. 1050
 Bastos, C. N. 4949
 Bastos Cruz, B. P. 4795
 Basu, A. N. 6059
 Batalova, F. M. 6589
 Batchelor, W. D. 658, 1666
 Bater, J. E. 10963
 Bath, D. S. 619
 Bath, J. B. 1273
 Bathal, G. S. 10780
 Bather, J. 9013
 Batista, J. G. S. 4899, 4901
 Batista, L. 4952
 Batista Filho, A. 2913, 4795, 4855, 5157
 Batra, G. R. 3664, 6874
 Batra, R. C. 2770-2771, 4717, 5010, 7753, 9708, 11660, 11664
 Batta, G. S. 9861
 Battisti, A. 2978, 5002, 5933
 Battu, G. S. 872, 4840
 Batzofin, S. H. 11601
 Baud, L. 77
 Baudin, P. 5145
 Baudoin, J. P. 2821
 Baudoin, W. O. 2091
 Baudouy, R. 3293
 Baudry, J. 4527
 Baudry, O. 8625
 Bauer, L. J. 6539-6540
 Bauer, L. S. 5025, 8042, 10068
 Bauer, T. 3551
 Baughman, D. 11232
 Baughman, J. F. 1140, 3374
 Baughman, R. G. 11157
 Baulkwill, W. J. 2086
 Baumann, P. 6293
 Baumann, W. 11988
 Baumgärtner, J. 3789, 6816, 11744
 Baumgärtner, J. U. 710, 6934
 Baur, B. 5544
 Baur, U. 9797
 Baust, J. G. 783, 3444
 Baz, A. 1823, 5020, 8830
 Bazarov, B. B. 521
 Bazarov, V. V. 587
 Bazzaz, F. A. 338
 Beach, R. M. 2299
 Beadle, D. J. 3216, 8033
 Beal, R. H. 11480
 Beall, J. R. 8174
 Beames, B. 8045, 11091
 Beamus, B. 4150
 Bean, J. N. 9458
 Beard, J. B. 11593
 Beardsley, J. W. 3828, 4488
 Beardsley, J. W., Jr. 1861, 2698, 11508
 Beattie, A. J. 2622
 Beattie, G. A. C. 10730
 Beaudreau, G. S. 4115, 4137, 11092
 Beauvais, A. 895
 Beauvillain, J. C. 1048
 Beaver, R. A. 5062
 Beaver, R. J. 4273
 Beavis, I. C. 2096
 Bebee, C. N. 2082-2083, 9110-9111, 9115-9116, 10558, 10799, 10888
 Beçak, W. 11400
 Becerra, J. X. I. 10426
 Bechinski, E. J. 5839
 Bechtel, D. B. 11913
 Beck, D. 6058
 Beck, J. R., Jr. 11928
 Beck, R. 7361
 Beck, S. D. 2183
 Beckage, N. E. 57, 7503
 Becker, H. 1020, 4309
 Becker, H. G. 7550
 Becker, M. 5908
 Becker, P. H. 10135
 Becker, S. A. 10649
 Becker, T. 8055
 Beckert, W. F. 11985
 Beckley, P. 8898
 Beckman, R. J. 8069
 Becnel, J. J. 10055
 Bedard, W. D. 10940-10941
 Bedaux, J. M. 3518
 Bedford, E. C. G. 3812
 Bednarek, A. 4149
 Bedo, D. G. 6380, 7390
 Beeby, A. 2545
 Béché, M. A. 10933
 Beede, R. H. 6801
 Beek, N. A. M. van 5109, 5133
 Beek, T. A. van 7794, 8916
 Beena, S. 2182
 Beenackers, A. M. J. 1276
 Beenackers, A. M. T. 42, 1062, 2407, 3275, 3285
 Beentje, H. J. 5743
 Beer, G. J. 704
 Beerling, E. A. M. 8680
 Beers, E. H. 8607-8608, 10688
 Beetle, D. E. 6620
 Beevi, S. N. 10741-10742
 Beg, M. U. 4200
 Beglyarov, G. A. 5500
 Begon, M. 6507
 Begum, M. 6854
 Begum, N. 6854
 Behdad, E. 493, 2529
 Behera, P. K. 11732
 Beheshti, N. D. 3749
 Behle, R. W. 5593
 Behura, B. K. 3288, 5310, 11370
 Bei-Bienko, G. Ya. 12022-12023
 Beicht, W. 3799
 Beier, R. C. 8665
 Beiger, M. 5067, 7050
 Beiriger, R. 8566
 Beirne, M. A. 7103
 Beitz, H. 2059, 2061
 Bejarano, A. 9562
 Bekmetova, Z. K. 11772
 Bélair, G. 5121
 Belal, M. H. 1697, 1731
 Belau, L. 641
 Belavadi, V. V. 7685
 Belcari, A. 11516
 Bel'ger, V. A. 2400
 Belgium, Centre de Recherches Agronomiques de l'Etat Gembloux 9136
 Belgium, Comité voor Onderzoek op Groentegewassen, Sectie I, Sint-Katelijne-Waver 10219
 Belgium, Onderzoek- en Voorlichtingscentrum voor Land- en Tuinbouw 4236
 Belgnaoui, S. 6438, 9272
 Bell, R. 4566
 Belisle, A. A. 2057
 Bell, D. S. 467
 Bell, G. J. 11133
 Bell, J. P. 979, 4209
 Bell, M. R. 9881
 Bell, R. A. 11339
 Bell, R. J. 8927
 Bell, R. L. 5739
 Bell, R. T. 10365
 Bell, W. J. 6433, 7405
 Bella, L. J. 3734
 Bellah, M. E. M. 285
 Bellamy, C. L. 1155
 Bellarmín, T. 10462
 Bellas, T. E. 7340, 7342
 Bellavista, J. 4396
 Bellés, X. 4389, 8928
 Bellinger, R. G. 5356, 10013
 Belloncik, S. 7149
 Bellone, G. 8621
 Bellotti, A. C. 217, 711, 713, 2148, 2878, 4890, 9841, 11745, 11747
 Bellows, T. S. 613, 8914
 Bellows, T. S., Jr. 8264
 Bellward, K. 1127
 Beloeil, J. C. 1351
 Belofsky, G. N. 5555
 Belokobyl'skii, S. A. 7519
 Belokobyl'skogo, S. A. 10194
 Beloshapkin, S. P. 11531
 Belousov, Y. V. 6115
 Belousov, Yu. V. 1278, 3552
 Belousova, G. G. 7539
 Belousova, Z. P. 11303
 Belova, N. K. 4990-4991
 Ben-Arie, Z. 486-487, 489
 Ben-Aryeh, Z. 11613
 Ben Dom, N. 7794
 Ben-Dov, Y. 2136, 4965, 4974, 11788
 Ben-Yehuda, S. 7737
 Ben-Ze'ev, I. S. 7143

- Benassi, V. L. R. M. 4951
 Benchamin, K. V. 4563
 Bendell, J. F. 817
 Bender, D. A. 6940
 Bendicho López, A. 2777, 5762
 Bene, G. del 9921, 11779
 Benedeczeky, I. 2031, 9240, 11201
 Benedetti, D. A. 6575
 Benedetto, R. di 2360, 9335
 Benedict, E. 7560
 Benedict, J. H. 65, 748, 9873, 11768
 Benedictus, J. A. de 3254
 Beneken Kolmer, E. W. J. 8408-8409
 Benepal, P. S. 1665
 Benest, G. 8270
 Benetti, M. P. 10841
 Benevenga, N. J. 7468
 Benezet, H. J. 6024
 Benfatto, D. 2765
 Bengtsson, B. A. 11599
 Bengtsson, G. 10018, 10155
 Bengtsson, M. 8231
 Benigno, D. A. 10842
 Benito, J. C. S. 4383, 4987
 Benke, D. 1071, 4326
 Benkó, A. 8461
 Benner, A. M. 1083
 Bennet-Clark, H. C. 10332
 Bennett, A. L. 4299
 Bennett, B. 10401, 11424
 Bennett, C. A. 8430, 10513
 Bennett, F. D. 1391, 8429, 11431, 11800
 Bennett, G. W. 7256
 Bennett, L. E. 9399
 Bennett, R. R. 5328
 Bennett, R. S. 4188, 6197
 Bennetová, B. 8179
 Bennis, N. 9306
 Bennisson, J. A. 4837
 Benoit, F. 9770
 Benschoter, C. A. 3074
 Benson, J. A. 6143
 Benson, M. 9040
 Benson, M. E. 9668
 Benson, W. W. 5035
 Bentley, B. R. 6757-6758
 Bentley, D. 5422
 Bentley, M. D. 508, 7823, 9107
 Bently, D. 5421
 Benton, A. W. 2311
 Benton, F. P. 7258, 7988
 Bentos Pereira, A. 4436
 Bentur, J. S. 176, 6724
 Benuzzi, M. 6130, 7785
 Benyamini, D. 7275
 Benz, G. 374, 1516-1517, 5059
 Benz, M. 8613
 Benzie, J. A. H. 2522
 Benzing, L. 1004
 Ber, R. 1711, 10846
 Beracz, P. 1848
 Beránková, J. 3788
 Berardinelli, S. P. 8069
 Berberet, R. C. 2682, 2687, 3743, 7695, 10655, 11606, 11608
 Berbert, P. R. F. 9892
 Bereczky, J. 1399
 Beregovoi, D. K. 3897
 Beregovoy, V. H. 5679, 7851
 Berenbaum, M. R. 332, 3152, 6319, 8411, 9199, 10813
 Berenger, H. 3343
 Berényi, M. 11130
 Bereznykh, E. D. 1809
 Berg, A. M. van den 162
 Berg, A. van den 162
 Berg, H. van den 1323, 1833, 10453
 Berg, M. A. van den 2769, 9711
 Bergé, J. B. 7335, 11217
 Bergeijk, K. E. van. 6549
 Berger, B. 7546
 Berger, H. K. 11036
 Berger, P. 1998
 Berger, P. H. 7604
 Berger S., H. 7113
 Berggren, G. T. 1658, 1661
 Bergman, D. K. 1058, 8779
 Bergmann, E. C. 4776
 Bergot, B. J. 1120
 Bergström, G. 2214, 2229, 2418, 3025, 8835
 Beringer, J. E. 1965
 Berio, E. 8291
 Berisford, C. W. 7936, 8839, 10930, 11801
 Berlese, A. 9143
 Berliner, E. 1019
 Berlinger, M. J. 488, 10847, 10849
 Berman, D. I. 2400, 3367
 Bernard, C. B. 10539
 Bernays, E. A. 2210, 4170, 5225, 5550, 6225, 6406, 6422, 8366, 9067, 10335-10336, 10893
 Bernes, A. 592
 Bernhardt, J. L. 11565
 Bernhardt, P. 6993
 Bernheimer, A. W. 3091
 Bernier, L. 6073, 9001
 Bernier, R. L. 6105
 Bernini, F. 2129, 3018
 Berry, C. L. 8114
 Berry, E. C. 11539
 Berry, J. S. 11453
 Berry, R. W. 6244
 Berryman, A. A. 5063, 11836
 Berthert, P. 1200
 Berthier, A. 5467
 Berti, N. 4267, 11389
 Berti Filho, E. 816, 2971, 4951, 10914, 11429
 Bertin, G. 8135
 Berton, F. 10415
 Bertucci, P. C. D. 6960
 Berville, A. 10122
 Beshear, R. J. 8634
 Beskrovaya, M. L. 2708
 Besse, N. de 11336
 Bessin, R. T. 9609
 Bestmann, H. J. 72, 1080, 1234, 1413, 2223, 6302, 8241, 9208
 Betbeder-Matibet, M. 1011
 Bethke, J. A. 10083
 Betowski, L. D. 8305
 Bettolo, G. B. M. 1411, 7577
 Beugnon, G. 187, 10420
 Beurskens, P. T. 5223
 Beveridge, R. L. 7926
 Bewick, G. S. 6621
 Beydon, B. 9248
 Beyer, H. 7776
 Beyssat, V. 7335
 Bezdečka, P. 2097
 Bezuglyi, V. P. 4212
 Bhadauria, N. S. 5830
 Bhagat, K. C. 1561, 4763, 6871, 8579, 9671
 Bhairi, S. 10066
 Bhaktavatsalam, G. 2644
 Bhalani, P. A. 4919, 10808, 11501, 11765
 Bhalerao, P. D. 2911, 11775
 Bhalla, O. P. 2872, 3900, 5846, 6390, 9763, 9852
 Bhan, M. K. 7180
 Bhandari, K. S. 10099
 Bhandari, R. S. 1416, 5919-5920
 Bhanot, J. P. 3664, 6698, 8725
 Bhanotar, R. K. 3505, 5052
 Bharadwaj, G. 7221
 Bhardwaj, A. C. 4317
 Bhardwaj, B. S. 7829
 Bhardwaj, S. P. 9681
 Bhardwaj, S. S. 10526
 Bhardwaj, S. V. 6887
 Bhaskar, P. S. 7243
 Bhaskaran, G. 6356
 Bhaskaran, P. 3855
 Bhaswati Bhattacharyya 8783
 Bhat, A. A. 2718
 Bhat, A. M. 4737, 8547, 8601
 Bhat, M. G. 7874
 Bhat, M. I. 10489
 Bhat, M. R. 5597
 Bhat, N. S. 4853
 Bhat, O. K. 2718, 6871, 8579
 Bhat, P. K. 3001, 3947, 9899
 Bhat, S. S. 2934
 Bhathal, S. S. 6903
 Bhati, D. P. S. 10743-10744, 11679
 Bhatia, P. 11057
 Bhatia, S. S. 3450
 Bhatnagar, K. N. 7570
 Bhatnagar, P. 8141, 9074
 Bhatnagar, S. C. 996
 Bhatnagar, V. S. 3720, 9521, 11590
 Bhatt, M. 7
 Bhatt, N. 3861
 Bhatt, R. S. 7188
 Bhattacharjee, R. 5642
 Bhattacharya, A. K. 2238, 3462, 4812, 4841-4842, 4863, 5361, 9360, 10811, 11723, 12021
 Bhattacharya, D. K. 3436
 Bhattacharyya, A. 3696
 Bhattacharyya, B. 8783
 Bhaumik, A. K. 5496, 8432
 Bhawane, G. P. 6693
 Bhola, R. K. 2273, 6357
 Bhole, S. D. 7653, 9590, 11674
 Bhole, S. R. 7541, 10958
 Bhosale, B. B. 9865
 Bhuiyah, M. I. M. 7984
 Bhumannavar, B. S. 3809-3810
 Bhushan, V. S. 3888, 8362
 Bhutani, K. K. 7243
 Bhutter, N. S. 11773
 Bi, F. C. 9198
 Biagi, G. L. 6150
 Biar, E. 2090
 Biase, L. M. de 7609, 8800
 Biassangama, A. 2100, 5852, 10837
 Bibikova, I. I. 8908
 Bicelli, C. R. L. 759
 Bichina, T. I. 7240
 Bichko, A. 5637
 Bichuk, Yu. L. 3897
 Bichuk, Yu. P. 677, 2856
 Biczkowski-Gudarzi, M. 2275
 Bidau, C. J. 1130, 1212, 6378
 Bidleman, T. F. 3198, 8128, 9096
 Biehl, H. 8821
 Bieler, R. 9144
 Biemont, J. C. 9181
 Bierbaum, T. J. 11616
 Bieri, M. 463, 975, 5799
 Bierlein, D. L. 327
 Bietlot, H. 1937, 8030
 Biever, K. D. 9287
 Bigbee, C. 6484
 Bigger, M. 838
 Biggs, W. D. 11858-11859
 Bigiani, A. 3253
 Bigler, F. 6549, 6719, 8062, 9449
 Bignotte, S. 575
 Bigot, L. 4999
 Bijpost, S. C. A. 6803
 Bikel, I. 4135
 Bilapate, G. G. 244, 595-596, 7805, 7878, 9862, 9865
 Bilgener, M. 4170
 Bilinski, S. M. 1045
 Billen, J. 284, 10407
 Billen, J. P. J. 7474
 Billen, W. 142, 653, 3885, 5073
 Billings, R. F. 11825
 Bilka, W. 4628
 Bílý, S. 5961, 11264
 Bimangou, A. S. 10837
 Bin, C. 5260
 Bin, F. 2445, 5932
 Bin Saad, A. A. 1545
 Binazzi, A. 1855, 2979, 7032
 Binder, R. G. 3144, 9668
 Bing, J. W. 9556
 Bink, F. A. 1404
 Bink-Moenen, R. M. 2367, 9912
 Binnington, K. C. 4128
 Binns, M. R. 6786, 8314, 10651
 Binns, R. 5404
 Biondi, M. 9334
 Biondo, C. J. 3464, 3931, 6957
 Birch, A. N. E. 1916, 10838
 Birch, M. C. 129, 7369
 Birgersson, G. 63, 787, 2984, 3025, 8835, 11845-11846
 Birnbaum, M. J. 33
 Bishop, A. L. 2686, 7698
 Bishop, D. H. L. 3128, 6106
 Bisht, R. S. 3437, 6012
 Bisoi, M. R. 5344
 Bist, B. S. 2872
 Bistline, F. W. 11666
 Biström, O. 4026
 Biswas, A. K. 7190
 Biswas, S. 4486, 4534
 Biswats, B. C. 5585
 Bisztray, G. 10566
 Bitaw, A. A. 1545
 Bitchina, T. 7240
 Bitran, E. A. 4802
 Bitsch, C. 93, 7375
 Bitsch, J. 93, 7375
 Bittante, G. 2543-2544
 Bittencourt, M. A. L. 6837
 Bittmann, I. 10470
 Bitton, S. 1544, 7143
 Bjostad, L. B. 4650, 8751
 Bjugstad, N. 7251
 Blacher, R. W. 6304
 Black, D. A. 7158
 Black, H. I. J. 5507
 Blackman, R. L. 5000, 9552
 Blackshaw, R. P. 7674, 8524, 11595, 11924
 Blackwell, M. 5024, 8988, 8999
 Bladel, R. van 981
 Blagbrough, I. S. 5317
 Blainey, A. D. 8942
 Blais, C. 9248
 Blaiseau, P. L. 11085
 Blake, E. A. 11823
 Blanc, J. P. R. le 3764, 8563
 Blanc, R. 7730
 Blanchard, J. W. 5582
 Blanco, C. C. 1198
 Blanco Lizana, G. 3383
 Bland, K. P. 9967
 Bland, R. G. 1222, 2669, 6346
 Blaney, W. M. 1916, 3641, 4220, 7577, 10159, 10165, 10537, 11981, 12012
 Blank, R. H. 467, 470, 8553
 Blank, R. W. 3973
 Blanton, C. M. 11817
 Blass, S. 26
 Błażewska, A. 8672
 Błażewski, F. 8672
 Bleakney, M. M. 307
 Blech, H. 5252
 Bleckmann, H. 4524-4525
 Bleem, A. M. 5249
 Bleicher, E. 6958-6959
 Bleih, S. 7516
 Bleiholder, H. 1996
 Blinn, R. L. 815, 2956
 Bliss, C. I. 4831, 6447
 Bliss, P. 6590
 Blissard, G. W. 8007, 11092
 Blodgett, S. L. 10650
 Bloem, K. A. 10282, 10385
 Bloesch, B. 8613
 Blom, J. van der 10348
 Blom, P. E. 3486
 Blomfield, T. L. 9675
 Blommers, L. H. M. 11446
 Blomquist, G. J. 1063, 1072, 2282-2283, 9942
 Blood, P. R. B. 9874
 Bloom, T. J. 3281

- Bloomcamp, C. L. 4451
 Bloomquist, J. R. 3168
 Blüel, S. 8557
 Blum, M. 11422
 Blum, M. S. 718, 2315, 3296, 4455, 5192, 5429, 8329, 10158, 10483
 Blum, W. M. 7826
 Blumberg, D. 2763
 Blümel, S. 2786, 3915, 10672
 Blus, L. J. 5204
 Boag, P. T. 8131
 Boase, C. J. 188
 Bobrzecki, J. 5441-5442, 11474
 Bock, C. 4327
 Bock, C. E. 10642
 Bock, I. R. 4, 5267
 Bocquene, G. 9091
 Boczek, J. 3800, 6784, 11878
 Bode, E. 11205
 Boden, P. 8245
 Bodingius, P. 8549, 8614
 Bodini, A. 7485
 Bodnarchuk, L. I. 3555
 Bodnaryk, R. P. 2173, 11350
 Boe, A. 8784, 10645
 Boemare, N. 77
 Boer, H. H. 1104
 Boer, M. H. den 5681
 Boer, P. J. den 10446-10448
 Boerma, H. R. 8715
 Boethel, D. J. 1658, 1661, 1667, 2842, 6896, 9807, 11086
 Bogatko, W. 5031
 Bogdanov, S. 2017
 Bogdanov, V. B. 1622
 Bogdanova, D. A. 5074
 Bogenschütz, H. 2998, 3024
 Boggs, J. F. 10922
 Bogino, R. L. 4911
 Bogner, F. 1109
 Boguleanu, G. G. 11249
 Bogus, M. I. 9261
 Boháč, J. 5377
 Bohidar, K. 3288, 5310, 11370
 Bohls, R. A. 9627
 Böhm, I. 9918
 Böhm, M. 10470
 Bohmann, D. J. 2916
 Böhmer, B. 7005
 Bohnenberger, J. 4525
 Boiça Júnior, A. L. 714
 Boiko, N. I. 2618
 Boisseau, M. 1208
 Boiteau, G. 4886, 6915, 6920, 10829
 Boivin, G. 5121, 6652, 8588, 8733, 11646
 Bokel, M. 1412, 9499, 10160
 Bokhoven, H. van 7794
 Bokonon-Ganta, A. H. 11746
 Bokx, J. A. de 1682
 Boland, N. P. 6640
 Bolay, A. 5704, 5707-5708
 Boldog, J. 8569
 Boldrini, R. 2256
 Boldt, P. E. 1403, 3618, 3623, 4588, 9506
 Boldyrev, M. I. 484
 Bolen, E. G. 2975
 Bolland, H. R. 2958
 Bollenbacher, W. E. 3325, 9255
 Boller, E. 6796-6797, 8062, 10683, 11624
 Boller, E. F. 5714
 Bologna, M. A. 6252, 6531
 Bolognesi, M. 8994
 Bolotnikova, V. V. 531
 Bolotnyi, A. V. 2027
 Bol'shakov, A. A. 531
 Bolte, K. B. 10245
 Bolton, B. 3215, 3757
 Boman, H. G. 2195
 Bomans, H. E. 3235
 Bon, H. de 1678, 3838, 10751
 Bonadona, P. 9180
 Bonavita-Cougourdan, A. 2411, 10400, 10406
 Bonce, V. M. 10120
 Boncodin, M. E. M. 7635, 8508, 9599-9600
 Bond, E. J. 5094, 7977, 8931
 Bond, G. G. 2029
 Bond, K. G. M. 840, 2353
 Bond, R. 7252
 Bond, W. J. 10971
 Bondarenko, A. G. 501
 Bondarenko, N. V. 5502, 6116
 Bondareva, L. N. 10582
 Bonde, J. 2494
 Boness, M. 1281
 Bonfanti, P. 6318
 Bonjour, E. L. 10781, 11702
 Bonning, B. C. 7232
 Bonnot, G. 4480
 Bonora, M. 3366
 Bonzi, S. M. 457
 Boo, K. S. 4898, 8786
 Booi, C. J. H. 8315
 Bookjans, G. 5814
 Boonyarith Sayampol 1413
 Booth, G. M. 3492
 Booth, R. G. 2498
 Booth, S. 7513
 Boppré, M. 1109, 3212
 Boquet, D. J. 3940
 Boquist, D. 523
 Boraai, H. A. 482
 Borai, F. 2012-2013
 Bordas, E. 4507
 Bordat, D. 3838, 4522
 Bordat, P. 10228
 Borden, J. H. 3007, 4056, 5036, 6550, 7061, 7366, 7531, 8153, 8236, 8587, 8590, 9207, 9844, 11851
 Borda, S. 7505
 Bordoloi, M. 8067
 Bordovsky, J. P. 2665
 Borello, R. 6140
 Borg-Karlson, A. K. 2214
 Borgemeister, C. 1635
 Borger, R. de 981
 Borges, M. 7346
 Borges, V. 4860
 Bergesen, L. W. 9381
 Borgmann, U. 6199
 Borgo, M. 2712
 Borisenko, L. A. 644, 1427
 Borish, D. 4387
 Bork, V. 1124
 Borkovec, A. B. 92, 993, 10163, 11337, 11339, 11341
 Borle, M. N. 1163, 5194
 Bormatova, M. E. 1920
 Börner, C. 3237
 Boros, P. 4208
 Borovoi, A. P. 350
 Borowiec, L. 3429, 4269
 Borregaard, S. 9024
 Borrergaard, S. 3864
 Borshakur, M. 5902
 Bortoli, A. 9281
 Bortoli, S. A. 8479
 Bortoli, S. A. de 3671, 3917, 4823, 9548
 Boscán de Martínez, N. 4771, 4798, 5765
 Bosch, J. 4452, 4873
 Bosch, J. van den 6773
 Bose, P. C. 10494
 Bose, R. 8022
 Bose, T. K. 6836, 10172
 Boselli, M. 6823, 8807
 Bosia, S. 11184
 Bosio, C. F. 9501
 Bosque-Perez, N. A. 8724
 Bosquet, G. 1354, 9252
 Bosquet, Y. 7272
 Bostanian, N. J. 6786, 6929, 8314, 8612, 9651, 10186
 Botelho, P. S. M. 4605, 8448, 10548
 Botenberg, H. 7634
 Botha, J. H. 9883
 Botswana, Ministry of Agriculture, Department of Agricultural Research 2116
 Bottenberg, H. 10627
 Bouchard, D. C. 8174, 9101
 Boucher, T. J. 2714
 Boucias, D. G. 885, 894, 1945, 6095, 7151
 Boudon-Padieu, E. 7717, 7791, 10680
 Bouix, G. 5926
 Boukema, I. W. 9772
 Boukhoudmi-Amiri, K. 11106
 Boulter, D. 1979, 3136, 9798
 Boumezzough, A. 4999
 Bounias, M. 911, 3276
 Bounous, G. 9745
 Bourarach, K. 4481
 Bourassa, J. B. 3194
 Bourdon, V. 4321
 Bourème, D. 10390
 Bourg, E. le 8279-8281
 Bourgogne, J. 2963
 Bourke, A. F. G. 4454
 Bourke, D. O'D. 2087
 Bourland, F. M. 1739, 7856
 Bourne, A. S. 330, 581
 Bourne, H. C. 8126
 Bourne, C. L. 10146
 Bourvin, A. 11188
 Bouse, L. F. 9432
 Bousquet, Y. 8215, 9139
 Bouvier, I. 11085
 Bowden, S. R. 138, 1041
 Bowen, I. D. 6487
 Bowen, J. M. 11211
 Bowen, S. 8871
 Bowen, S. M. 1063
 Bowers, M. D. 338, 345, 2316, 3629, 9916
 Bowers, W. S. 1125, 4315, 10180, 10182-10183
 Bowman, C. E. 2104
 Bownes, M. 2270, 7353
 Boyan, G. S. 84, 8248, 10291-10294
 Boyd, M. 9109
 Boyd, V. K. 10952
 Boyer, J. E., Jr. 5403
 Boyer, M. G. 4022, 5927
 Boyonoski, N. 8133
 Bozai, J. 8486
 Bozhko, N. A. 10082
 Braaksma, R. 8680
 Brabham, A. 8234
 Braby, M. F. 1159, 1874
 Bracken, G. K. 8749
 Bradbury, S. P. 10131
 Bradfield, J. Y. 2288
 Bradley, J. R., Jr. 2839, 2923, 7612, 10860, 11724
 Bradley, J. T. 9201
 Bradley, M. K. 4135
 Bradley, R. H. E. 876
 Bradley, R. S. 2232
 Bradley, T. J. 1097
 Bradshaw, J. W. S. 3026
 Bradshaw, W. E. 1146
 Brady, U. E. 7957
 Braekman, J. C. 6300
 Brailovsky, H. 349
 Brain, P. 8584
 Braithwaite, R. W. 1345
 Brakefield, P. M. 7382
 Braken, G. K. 2304
 Braker, H. E. 3756
 Brame, S. 5469
 Brame, S. K. 2449, 5819, 6572, 8710, 10439
 Bramble, B. J. 5154
 Branch, S. A. 7574
 Branco, T. 10227
 Brancucci, M. 6219
 Brand, J. M. 1230
 Brand, R. C. 9278
 Brandl, D. G. 8278, 10721
 Brandl, R. 6645
 Brandstätter, J. H. 11323
 Branness, G. 6513
 Brann, T. B. 1790
 Branson, D. 6177
 Branson, T. F. 1451, 10588, 11546
 Brar, D. S. 599, 2613
 Brar, J. S. 1924, 9769, 9796
 Brar, K. S. 9528, 9774
 Brar, S. P. 11773
 Brar, S. S. 4717
 Brard, N. L. 4599
 Bras, S. le 2023
 Bras-Herreng, F. 8974
 Brasileiro, V. L. F. 4331
 Braskerud, O. 10319
 Brasse, D. 6584, 11205
 Brates, N. 11181
 Bratti, A. 557
 Bratu, R. 4912
 Braughman, J. F. 3457
 Braun, A. R. 713, 9841, 11745
 Braun, H. E. 2945
 Braun, J. 1586
 Braun, S. 3512, 7128, 11942
 Braune, B. M. 968
 Bräunig, P. 6335
 Bravery, A. F. 6244
 Bravo, H. R. 10571
 Bravo Mojica, H. 134, 217, 404, 630, 632, 1458
 Brawner, O. L. 11974
 Braxton, E. G. 9816
 Braxton, L. B. 3881
 Bray, R. A. 825
 Braza, R. D. 1813, 11791
 Brazil, Centro Nacional de Pesquisa de Soja, EMBRAPA 1654
 Brazil, Empresa Brasileira de Pesquisa Agropecuária 7852
 Brazil, Fundação Instituto Agrônomo do Paraná 9533
 Brazil, Organização das Cooperativas do Estado do Paraná 1655
 Brazil, Unidade de Execução de Pesquisa de Ambito Estadual de Dourados 11279
 Brazner, J. C. 7227
 Brecht, J. K. 8937
 Breden, F. 3034, 8473
 Breed, M. D. 5431
 Breen, J. P. 10632
 Breene, R. G. 4925, 5890, 7863
 Breer, H. 118, 1071, 4326, 9227
 Brehélin, M. 77, 2184
 Breidbach, O. 4375
 Breitenbeck, G. A. 10974
 Breittmayer, V. 11217
 Brem, G. 7544
 Bremner, A. G. 8849
 Brempong-Yeboah, C. Y. 9854
 Brenna, H. K. 3956
 Brennan, M. J. 10769
 Brenner, F. E. 2029
 Brestkin, A. P. 1060
 Bretz, C. K. 6646
 Breuer, M. 3016
 Brew, C. R. 10396
 Brewbaker, J. L. 9571
 Brewer, K. K. 2792
 Brewer, M. J. 11977
 Brezner, J. 1122, 5178, 10953, 11131
 Briaes, M. J. 11671
 Brian, M. V. 4456, 9375
 Briard, P. 315
 Bride, M. 4566
 Bries, D. T. 2572, 3612
 Briggs, G. G. 954
 Briggs, M. A. 1513, 8536
 Briggs, S. A. 11226
 Bright, D. E. 2989, 9965
 Brignoli, P. M. 2101
 Brimble, M. A. 9108
 Brindley, W. A. 11166
 Brink, T. 6827
 Brinkman, U. A. T. 9130
 Brinsfield, R. 10152
 Briolini, G. 1566, 3134
 Brisolla, A. D. 4776
 Bristow, P. R. 6186
 British Standard 11018
 Brito P. de Melo, A. 4607
 Brivio, C. 6249
 Broadbent, A. B. 9055, 9925

Broadway, R. M. 2190, 9847
Brock, A. T. M. van den 1276
Broderick, M. P. 6145
Broderon, H. 11858-11859
Brodeur, J. 261, 9400
Brodfuehrer, P. 6334
Brodfuehrer, P. D. 5319
Brødsgaard, H. F. 773
Brody, A. K. 5880
Broek, A. T. M. van den 42, 2407
Broemeling, D. K. 3226
Bromand, B. 8071
Bromhall, C. 1306
Bromilow, R. H. 8080, 9092
Bronskikh, G. D. 5691
Brookes, C. P. 6663, 9655
Brookhart, G. L. 11915
Brookman, J. L. 1061, 5307, 11416
Brooks, C. B. 5130
Brooks, C. J. W. 6217
Brooks, D. R. 1284
Brooks, M. A. 7147
Brooks, M. W. 11984
Brooks, S. P. J. 9481
Brooks, W. M. 1515, 10055
Broschewitz, B. 605
Brosh, S. 771, 778, 10884
Brough, C. N. 3256-3257, 6354, 9174, 9212
Broussard, D. R. 7133, 10081
Brousseau, R. 1928, 9002, 11081
Brovdi, V. M. 11510
Browder, L. E. 7595
Brower, J. H. 11053
Brower, L. P. 331, 6664, 9495
Brown, B. J. 11124
Brown, C. M. 4937
Brown, D. F. 994
Brown, F. 8160
Brown, G. C. 2684, 5814, 11731
Brown, G. R. 17
Brown, J. K. 7845, 10779
Brown, J. R. 4503
Brown, J. T. 6217
Brown, J. W. 3413, 4005, 10362
Brown, M. C. S. 2248
Brown, M. R. 112, 9226
Brown, M. W. 9688-9689
Brown, R. G. 10240
Brown, R. L. 2143, 5393
Brown, S. A. 11893
Brown, S. K. 1563, 8099, 9683
Brown, V. K. 6775, 9623, 10095, 10352, 10505, 10521
Brown, W. V. 11349
Brownbridge, M. 2396
Browning, H. W. 2632, 5584, 5621, 10587
Bruce, W. 11878
Bruce, W. A. 1265, 1283, 8374, 10474
Bruckner, P. L. 10564
Bruggen, A. C. van 5538
Brüggen, K. U. 2617
Bruggen, P. van der 1702
Bruggers, R. L. 3194
Bruins, A. P. 6803
Brun, L. O. 4955, 10877, 11596
Brun, T. 9081
Brunnarius, J. 7418
Brunner, J. F. 9687
Brunner, Yu. N. 383
Bruno, M. 10537
Brussaard, L. 1694
Brussard, P. F. 1140
Brust, G. E. 9559
Bruton, B. D. 1718
Bruwer, I. J. 3815
Bruzzone, N. D. 4426, 10382, 11404
Bry, R. E. 1892
Bryant, J. P. 3027
Bryceson, K. P. 2361, 6505, 7473
Bryden, J. 4087
Brygoo, Y. 11085
Bryson, T. A. 978
Buainain, C. M. 4686, 6704
Bubela, B. 5026
Bubniewicz, P. 6718
Buch, M. W. von 1797
Buchanan, G. A. 10682
Büchi, R. 9762
Büchler, R. 6200, 7495
Büchs, W. 277
Buck, C. 9193
Buckingham, G. R. 4579, 4581, 4587, 8430, 10472, 10513
Buckland, S. J. 11150
Buckley, P. M. 7606, 10599
Büda, V. 7239
Buda, V. G. 7239, 7406
Budai, C. 9859, 11782
Buddenhagen, I. W. 8724
Budiyanto, E. 450
Bueno, F. R. 986
Bueno, O. C. 11425
Bueno, V. H. P. 2971, 5683, 5755, 9695
Bues, R. 2309, 4238
Bueso, J. A. 10134
Bugg, R. L. 3774, 3872, 6642
Bugiani, A. 3135
Buhhoff, G. J. 1792
Buisman, P. 4752
Buisson, D. 4773
Buitendag, C. H. 568
Bukaki, G. 4910
Bukhman, M. L. 1599
Bulánková, E. 3403
Buleza, V. V. 2228, 3833
Bull, D. L. 1299
Bull, R. M. 3646, 6688
Bulletin OEPP 946
Bullington, S. W. 3262
Bulloch, A. G. M. 5324
Bullock, J. I. 954
Bullock, R. C. 7058
Bultmann, H. 6364
Bulukhto, N. P. 512
Bulyginskaya, M. A. 3941
Bunck, C. M. 3181, 11999
Bünemann, H. 6381-6382
Bunn, D. S. 5463
Buntin, G. D. 2615, 6766, 9531, 9629, 9633, 10563-10564
Buratti, L. 790
Burckhardt, D. 180, 4785, 8304
Burckhardt, D. H. 9153
Burd, S. B. 7539
Burden, D. J. 7962
Burditt, A. K., Jr. 4743-4744, 11894
Burdon, J. J. 11254
Burger, J. A. 10936
Bürgés, G. 8527, 8534
Burgess, H. D. 7154
Burgess, E. P. J. 11763
Burgess, R. S. L. 4702
Burgett, D. M. 1267, 4490, 6576, 10450
Burgos, R. 12009
Burikson, I. G. 3494
Burk, T. 3377
Burke, H. R. 7553, 8201, 11769
Burkett, G. A. 7702
Burkholder, W. E. 1086
Burlando, T. M. 4100, 11072, 11908
Burne, J. C. 5836, 7521, 7675
Burnham, P. A. 9969
Burnham, P. M. 9969
Burns, E. L. 913
Burov, V. N. 4216
Burrige, L. E. 8104
Burrini, A. 9202
Burrini, A. G. 3246
Burris, E. 3940, 5882, 6982, 8775, 10861
Burrrough, P. A. 628
Burrows, M. 6327, 10296
Burse, V. W. 960, 2019, 10134
Burton, H. T. 7836
Burton, J. F. 7255
Burts, E. C. 1565, 8623-8624, 10688
Busacca, J. D. 4913
Busby, D. G. 9098, 10139
Busch-Petersen, E. 2390, 4350, 7388
Büschges, A. 6344, 9223
Buschinger, A. 195, 2428
Buschmann-Gebhardt, B. 9245
Buser, H. R. 2227, 7727, 11958
Bush, G. L. 1538, 4751, 5734, 9284, 11616
Bush, L. 2609, 5603
Bush, L. P. 7676
Bush, R. K. 7488
Bushman, D. W. 9268
Bushong, S. J. 8130
Bushwein, J. R. 7489
Busoli, A. C. 623, 9730
Buss, M. E. 1135
Bussiere, J. L. 4188
Busto, T. del 4356
Bustos, S. 4197
Busutok, M. N. 1567
Busvine, J. R. 9053
Buszko, J. 3431, 3752
Butcher, C. F. 8849
Butcher, M. R. 6785
Butler, G. D. 2389
Butler, G. D., Jr. 7764, 7869
Butler, L. 5943, 11795
Butlin, R. K. 3734, 6510
Butovskii, R. O. 8412
Butt, B. A. 5739
Butt, T. M. 3110-3111, 5137, 6089, 6092, 11082, 11917, 11921
Buttemer, W. A. 9318
Butter, N. S. 4930, 9877, 10863
Butterworth, E. W. 3023
Büttiker, W. 11955
Butts, R. A. 9543
Buxton, D. R. 7699
Buxton, J. H. 8812
Buysse, G. 7007
Buzingo, D. 11168
Buzzi, Z. J. 5562
Byale, A. N. 9862
Byerly-Murphy, K. F. 9716
Byers, G. W. 4284
Byers, J. A. 63, 801, 5037, 7046, 8835, 11841, 11847
Byers, J. R. 464, 8532, 9209, 9543
Byers, R. A. 327, 356, 3682, 11592
Byers, R. E. 10697
Bylund, H. 791
Bynum, E. D., Jr. 1506, 2665, 10593
Byrne, D. N. 8666, 9271
Byrne, P. F. 8490
Byrne, V. S. 6082
Bystrova, V. L. 3897
Byun, B. K. 10359
Caballero, P. 4667, 7624, 11932
Caballero, R. 634
Caballero, R. A. 756
Cabauatan, P. Q. 1460
Cabello, T. 4355, 4644, 9440
Cabello-García, T. 1903
Cabitza, F. 9749
Cabras, P. 9749
Cabrera, M. 8636, 9732
Cabrera, M. H. 2717
Cabrera, R. I. 498
Cabunagan, R. C. 7616, 8504, 9581-9582
Cáceres, O. 6137, 8145
Cadapan, E. P. 2780
Caddel, J. L. 2682, 2687, 3743, 10655
Cade, S. C. 10931
Cade, W. H. 6412
Cadogan, A. 2546
Cadogan, B. L. 10906
Caffarelli, V. 5473
Caglayan, S. H. 7337
Cahill, D. B. 7926
Cai, F. X. 10076
Cai, W. Z. 5285
Cail, R. S. 6478
Calabi, P. 2419, 2421, 7478
Calafiori, M. H. 8478, 8480, 8502, 8676, 8697, 8718, 8944
Calder, A. A. 8213
Calderon, M. 11038
Calenbuhr, V. 10418
Calhoun, J. V. 3631
Calilung, V. J. 10842
Calis, J. N. M. 4515
Calkins, C. O. 3818, 4364, 9365
Callaghan, C. J. 4004
Callaini, G. 11281, 11385
Calleri, M. 11184
Caloni, I. B. de 1593
Cals-Usciat, J. 418
Caltagirone, L. E. 2767
Calumpang, S. M. F. 7207
Calve, D. le 5534
Calvelli Alvarenga, J. 3053
Calvez, B. 1354
Calvin, D. 356
Calvin, D. D. 1454
Calvo Domingo, G. 4906
Calza, R. 4802
Camacho, J. P. M. 3349
Camacho, M. 182
Cámara, M. A. 4719
Camargo, A. P. de 8449
Camargo, L. M. P. C. A. 4795
Camargo, M. T. V. 6512, 8322
Camazine, S. 1259
Camberos, U. N. 133, 632
Cameron, D. E. 3036
Cameron, E. A. 8843, 9966, 10922
Cameron, P. J. 1532
Cameron, R. S. 10943
Cammaerts, M. C. 10408-10409, 10417
Cammaerts, R. 10417
Cammell, M. E. 3757
Camoni, I. 6151
Camp, B. J. 65
Campadelli, G. 253-255, 283, 4516, 7434
Campan, R. 187
Campanhola, C. 2921, 8778, 11767, 11976, 11978
Campanini, F. 6318
Campbell, B. C. 1056, 6225, 8517, 10976
Campbell, C. A. M. 10875
Campbell, C. W. 10746
Campbell, I. M. 10970
Campbell, J. 8026
Campbell, J. A. 5214
Campbell, J. F. 4129, 11930
Campbell, J. M. 9960
Campbell, K. G. 2959
Campbell, R. K. 7719
Campbell, S. D. 10314
Campbell, T. A. 7694
Campbell, W. C. 11247
Campbell, W. P. 5152
Campion, D. G. 6132
Campobasso, G. 5558, 5575
Campodonico, O. P. 7845
Campos, F. 2628, 8373
Campos, J. P. de 8691
Campos, L. 5160
Campos, M. 579, 11671
Campos, O. 765, 3950
Campos Arce, J. J. 816
Camps, F. 2211, 2219, 7345, 8239, 8872, 11308
Canada, Canadian Forestry Service 4047
Canada, Lethbridge Research Station 8183
Canada, Québec Society for the Protection of Plants 11268

- Canada, Research Station,
Kentville, Nova Scotia
10218
- Canard, M. 2477
- Cancela da Fonseca, J. P.
9325
- Candeias, J. A. 8750
- Candelas, G. C. 5296
- Candolfi, M. P. 10683
- Candy, D. J. 2230
- Cane, J. H. 8870
- Canela, R. 8598
- Canney, P. J. 1106
- Cannon, R. 7159, 7473
- Cano, J. M. 1196
- Cano, M. A. 5426, 11326
- Cano, M. I. 1136, 5345, 6506,
10320
- Cantelo, W. W. 5843, 8740
- Cantor, P. 2713
- Cantot, P. 1645, 10793
- Cantrell, B. K. 3525
- Cao, A. H. 9420
- Cao, C. Y. 4214, 4934
- Cao, G. J. 4555, 5348
- Cao, H. G. 4957
- Cao, J. 5159
- Cao, M. X. 1358, 3583, 4556
- Cao, W. C. 2974
- Cao, Y. Z. 4627
- Cao, Z. L. 7735
- Caouette, M. R. 9915
- Čapek, M. 2097, 4012
- Capel, P. D. 11223
- Capel, R. J. P. 986
- Capinera, J. L. 3472, 3669,
7824, 9829
- Capizzi, A. 557, 2944
- Capogreco, J. V. 10476
- Cappeli, A. 1566
- Cappozzo, H. L. 2908, 3929
- Cappuccino, N. 4584
- Capra, F. 5259
- Capua, S. 5187
- Capy, P. 4360
- Carabias Martínez, R. 9033
- Caradus, J. R. 6773
- Carante, J. P. 6440
- Carayon, J. 5256
- Carballo, M. 4825, 5788
- Carcupino, M. 2256
- Cardé, R. T. 2218, 6425,
6435-6436, 7349, 9403
- Cardelli, M. A. 2913
- Cárdenas, A. 5600
- Cárdenas-Murillo, R. 583
- Cardona, C. 868, 2822, 5806
- Cardoso Tacaná, J. 4434
- Carefoot, T. H. 3600
- Caretta, G. 3096
- Carey, J. K. 6244
- Carey, J. R. 2383, 3753, 3943,
3951, 4380, 6446, 6535
- Carey, P. 8030
- Carey, P. R. 1937
- Carganico, H. A. 6179, 11127
- Carino, F. A. 11768
- Carino, F. O. 8059
- Carius, M. L. 5290
- Carlaw, P. M. 3890
- Carlberg, U. 4263, 4298
- Carle, F. 11184
- Carlin, N. 1223
- Carlson, C. E. 1791
- Carlson, G. A. 6103, 11120
- Carlson, G. R. 11237
- Carlson, R. W. 3872, 3914,
6495
- Carlson, S. D. 4289, 7360
- Carlton, C. E. 10327
- Carmean, D. 3531, 3998
- Carmon, D. 7751
- Carnegie, A. J. M. 365
- Carneiro, M. F. 4690
- Carney, R. L. 6355, 10306
- Carnielli, A. 1656
- Carnovale, E. 10050
- Caroppo, S. 6820
- Carpana, E. 10478
- Carpenter, A. 3363
- Carpenter, J. E. 914-915,
2932, 4361
- Carracedo, M. C. 4297
- Carrai, C. 7892
- Carreiras, M. C. 6674
- Carrillo Sánchez, J. L. 217,
403, 630, 1458
- Carroll, C. R. 12030
- Carroll, L. E. 5278
- Carroll, S. 6975
- Carroll, T. W. 9552
- Carron, R. 4714
- Carruthers, R. I. 5128, 7150,
8034, 11917
- Carruthess, W. R. 5077
- Carsel, R. F. 2070
- Carson, H. L. 8597
- Carson, R. 11226
- Carter, A. D. 11228
- Carter, C. 7839
- Carter, C. D. 724, 4883, 9848
- Carter, C. I. 9630
- Carter, D. J. 7322
- Carter, F. L. 11349
- Carter, J. B. 4093
- Carter, M. 6421
- Carter, M. R. 2681
- Carter, M. W. 3278
- Carter, N. 5595, 5602, 8459,
8471
- Carter, P. A. 5350
- Carton, Y. 6411
- Cartwright, B. 4826, 4829,
5857, 9766
- Carvalho, C. F. 8336
- Carvalho, J. C. M. 10242
- Carvalho, L. de 8168
- Carvalho, S. de 5022
- Carvalho, S. M. de 9785
- Carvillo, R. 8985
- Cary, L. C. 117
- Casagrande, M. M. 5253-5254
- Casagrande, R. A. 1315
- Casares, P. 4297
- Casas, J. 541, 2736
- Case, T. J. 9384
- Casey, T. 4742
- Casey, T. M. 9318
- Casida, J. E. 958
- Casida, L. E., Jr. 1926
- Cassan, M. 11085
- Cassar, L. F. 1180
- Cassier, P. 11336
- Cassulo, L. A. 9336
- Castagnoli, M. 9443, 9664
- Castañe, C. 4507
- Castañera, P. 10542
- Casteels, H. 1876
- Castellane, P. D. 3671, 3917,
4823
- Castellari, P. L. 536
- Castilho, H. J. 8448
- Castillo, N. 8356, 8642
- Castiñeiras, A. 10880
- Castner, J. L. 1519
- Castro, M. A. 4417
- Castro, V. L. 8093
- Castro de A. Camargo, L. M.
P. 4795
- Castro Mata, O. 1579
- Catala, E. R. V. 1746
- Cate, J. R. 8425, 11769
- Catindig, J. L. A. 443, 447,
7639
- Catling, D. 10611
- Catling, P. M. 7889
- Catling, V. R. 7889
- Caubert, Y. 1343
- Caudwell, A. 7717, 7791,
10680
- Cauquil, J. 7265
- Causse, R. 3794
- Cavalier, T. C. 2040
- Cavallini, G. 8565, 9660
- Cavalloro, R. 4240, 6243
- Cavanaugh, J. A. 2685
- Cave, F. E. 2693, 6801, 11634
- Cave, R. D. 4478, 4520
- Cavin, J. C. 1097
- Cázares, C. L. 134, 404
- Cazzaniga, N. J. 1372
- Ceballos, M. 9446, 9712,
9714, 9724, 10463
- Cecchini, J. P. 3357
- Cech, T. 4043
- Celedonio, H. 8636, 9732
- Celedonio H., H. 11892
- Celeste, M. F. 8145
- Celeste, M. G. 6137
- Celino, L. P. 1480
- Celli, G. 962, 9017
- Cen, M. 789
- Center, T. D. 9492
- Centro Internacional de
Agricultura Tropical 2080-
2081, 5226, 9112-9114,
11240-11241, 12013
- Centro Internacional de la
Papa 5083
- Cepeda, G. J. 9322
- Cepeda-Pizarro, J. G. 9323
- Čepelák, J. 6451
- Čepelák, S. 6451
- Cerdá, V. 7173
- Cerdá, X. 4452, 8328
- Cereceda, G. 4797
- Cerezke, H. F. 7063, 7913
- Cermeli, M. 4676
- Cernigliaro, A. 2360, 9335
- Černý, Z. 4406
- Cervancia, C. R. 6026
- Cesaroni, D. 1142
- Ceustermans, N. 9770
- Ch, Y. I. 10358
- Cha, J. Y. 1030
- Chabaud, A. G. 8323
- Chacko, M. J. 8917
- Chadwick, J. S. 3107
- Chaeychomsri, S. 7881
- Chahal, B. S. 10047, 11026
- Chaichuchoi, S. 7881
- Chaihoi, P. 8453
- Chalka, V. N. 2721, 2863
- Chakrabarti, A. 2611, 8701
- Chakrabarti, N. K. 6836
- Chakrabarti, S. 1189, 1338,
2966-2967, 3436, 3648,
3746, 4510, 5012, 5480,
6269, 7706, 8878, 10686,
10977, 10981
- Chakravarty, A. 3696
- Chakravorty, S. 989, 2071,
4171-4172, 8768, 11176-
11177
- Chalfant, R. B. 1698, 7827
- Chalkov, A. A. 5502
- Chaloner, P. A. 11135
- Chamberlain, K. 8080
- Chamberlin, M. E. 78, 1094
- Chambers, D. L. 11122
- Chambers, D. M. 2526
- Chambers, J. 67, 857
- Chambers, J. E. 2026, 12000
- Chambers, W. S. 9524
- Chambon, J. P. 6700
- Champ, B. R. 12034
- Champagne, P. 9621
- Champawak, R. S. 11202
- Chan, C. K. 9653
- Chan, H. T., Jr. 3078, 7116
- Chan, J. Y. 4819
- Chan, K. L. 6657
- Chan, M. L. 6253
- Chan, S. Y. 11242
- Chanana, Y. R. 9708
- Chand, H. 2656
- Chandel, B. S. 938
- Chander, H. 6018
- Chandish 8386
- Chandla, V. K. 1686-1687,
2872, 3900, 5846
- Chandler, D. S. 10231
- Chandler, L. 1637-1638, 4845-
4846
- Chandler, L. D. 1718, 9743
- Chandler, P. J. 2349
- Chandra, A. 9731, 10743-
10744, 11679
- Chandra, D. 3860
- Chandra, H. 5413
- Chandra, J. 2469, 2592, 6685
- Chandra, M. 3192
- Chandra, S. 3480, 5412, 5616,
8320
- Chandrasekaran, S. 6851,
11309
- Chandrasekhar, A. 5829
- Chandrasekhar, J. 990
- Chang, C. H. 4275
- Chang, C. J. 9038
- Chang, C. P. 4718, 10684
- Chang, E. S. 98
- Chang, F. 7236
- Chang, G. M. 10487
- Chang, H. Y. 4276
- Chang, J. F. 65
- Chang, M. T. 3321, 4106
- Chang, N. T. 1633, 3874,
10785
- Chang, P. Y. 11443
- Chang, S. M. 6859
- Chang, S. S. 8367
- Chang, T. H. 21, 10272
- Chang, Y. C. 4002
- Changing Villages 8053
- Changming, C. 11437
- ChannaBasavanna, G. P. 1619,
10208-10209
- Channappagowdar, B. B. 3698
- Chant, D. A. 7323, 8345,
8586, 10441, 11284
- Chapco, W. 4438
- Chapel, S. 7326
- Chapin, J. W. 10563
- Chaplin, G. E. 10908
- Chaplin, J. F. 758
- Chapman, G. B. 6559
- Chapman, P. L. 7824
- Chapman, P. S. 7736
- Chapman, R. B. 8546, 11696
- Chapman, R. F. 4435, 6406,
11527
- Chapman, R. L. 10637
- Chaput, D. 3442
- Chararas, C. 3579
- Charbonneau, M. 10314
- Chareondham, P. 10611
- Chari, M. S. 7883, 8788
- Charles, J. G. 4715
- Charlet, L. D. 2899, 4913
- Charlot, G. 2093
- Charlton, R. E. 6425, 7349
- Charmillot, P. J. 3777, 4757,
5717, 7727, 8581, 8613
- Charnley, A. K. 1954, 1958,
1961, 4096, 4141, 6073,
6107, 6113, 7138, 8032,
8986, 9001
- Charnov, E. L. 2501, 11805
- Charpin, P. 6360
- Charrier, M. 9214
- Charudattan, R. 10517
- Chase, C. A. 6694
- Chase, R. 9482
- Chassagnard, M. T. 6475,
11617
- Chastagner, G. A. 10886
- Chatterjee, A. 3166
- Chatterjee, C. 47
- Chattopadhyaya, S. 8259
- Chaturvedi, A. K. 8105
- Chaudhari, S. 1953
- Chaudhary, H. R. 11691
- Chaudhary, J. P. 355, 1207,
1423, 2325, 4429, 5589,
5592, 6690
- Chaudhary, R. N. 7665, 11550
- Chaudhry, M. I. 1794
- Chaudhry, M. Q. 10118,
11034
- Chaudhry, N. A. 7586
- Chaudhry, R. K. 10099
- Chaudhuri, A. 8399
- Chaudhuri, P. K. 7244
- Chaudhury, M. I. 796
- Chaufaux, J. 8976, 11099
- Chauhan, R. 672, 7813
- Chauhan, R. S. 3350, 3353
- Chauhan, S. P. S. 2014
- Chauhan, S. V. S. 7221
- Chautems, D. 9386
- Chauvin, G. 9181
- Chauvin, R. L. 9287

Chavadej, J. 3602
Chavan, K. B. 7656
Chavancy, G. 1354
Chawla, V. K. 2794
Chazeau, J. 10868
Che, X. B. 10892
Chebanova, N. E. 610
Cheema, A. A. 2193
Cheema, K. 10775
Cheeseman, M. T. 1110, 5419, 11417
Cheetham, T. 7186
Chegwidden, W. R. 6368
Chellayan, S. 11174
Chelliah, S. 2664, 3164, 3727
Chemsak, J. A. 1401, 3409
Chen, B. Q. 4778
Chen, B. Y. 1346, 7862, 9457
Chen, C. C. 1461, 11374
Chen, C. J. 10052
Chen, C. K. 4291
Chen, C. L. 2659
Chen, C. M. 4663
Chen, C. S. 4349
Chen, C. X. 9415
Chen, C. Y. 2462
Chen, D. 4282
Chen, D. C. 3592
Chen, D. D. 4137
Chen, D. G. 3653
Chen, D. H. 8798
Chen, D. R. 7509
Chen, F. Y. 4957
Chen, G. 3655
Chen, G. K. 10378
Chen, G. Q. 5183
Chen, G. S. 7862
Chen, H. 2388
Chen, H. C. 1082
Chen, H. S. 1334, 8331, 9472
Chen, J. 2564, 9678
Chen, J. F. 7735
Chen, J. H. 2264, 4558, 7509
Chen, J. S. 8082, 9052, 11748
Chen, J. X. 4958
Chen, J. Y. 10052
Chen, K. P. 9479
Chen, L. F. 3844
Chen, L. Q. 11559
Chen, M. 3697
Chen, M. J. 1461
Chen, M. L. 4313
Chen, M. M. 10945
Chen, N. M. 7061
Chen, P. S. 3338
Chen, Q. 5116, 7153
Chen, Q. F. 5634
Chen, Q. X. 9414, 9425
Chen, R. 3697
Chen, R. L. 2321
Chen, S. C. 1334
Chen, S. P. 9951
Chen, S. X. 3673, 9048
Chen, S. Y. 10076
Chen, W. L. 8043
Chen, X. L. 2731
Chen, X. O. 3535
Chen, X. Y. 10892
Chen, Y. G. 7735
Chen, Y. H. 1352
Chen, Y. N. 1659
Chen, Y. W. 4559
Chen, Y. X. 3513, 3582, 10787
Chen, Z. 1346
Chen, Z. A. 7951
Chen, Z. E. 4097
Chen, Z. P. 11507
Chenault, E. W. 10093
Chenet, T. 3939, 7879
Cheney, C. D. 2331, 8277
Cheng, C. H. 11374
Cheng, C. H. C. 1143
Cheng, D. Y. 9578
Cheng, E. Y. 453
Cheng, G. A. 6679
Cheng, H. H. 5896, 10874
Cheng, H. K. 8369
Cheng, J. T. 9518
Cheng, J. Y. 10620
Cheng, K. W. 6931
Cheng, P. C. 8501
Cheng, X. 3697
Cheng, X. N. 10620
Cheng, X. W. 6733
Cheng, Y. H. 8689
Cheniclet, C. 7963
Chénier, J. V. R. 822, 8862
Chenkin, A. F. 3146
Cheplick, G. P. 7672
Chepurnaya, V. I. 6821
Cherepanova, R. V. 7818
Cherix, D. 9383, 9386, 9392
Chernii, A. M. 2863
Chernin, M. I. 6134
Chernyshev, V. B. 272, 2903, 11408
Cherrett, F. J. 12015
Cherrett, J. M. 4459 12015
Cherrill, A. J. 6507, 9623
Cherry, R. H. 5650, 7587
Chertovskikh, A. G. 10687
Cheshire, J. M., Jr. 2667, 7826
Cheshire, M. V. 1367
Cheskis, B. A. 11310-11311
Chestukhina, G. G. 1920
Chetaraj, C. 8453
Chetty, C. S. 5201, 7545
Chevin, H. 2972, 4031
Chevrizov, B. P. 2400
Chew, V. 3079
Chhotani, O. B. 3580
Chianese, R. J. 11815
Chiang, S. N. 5390
Chiang Lok, M. L. 4849-4850
Chiappa T., E. 2308
Chiara, S. Ragusa di 11802
Chiavegato, L. G. 569, 4792
Chiba, T. 3389, 3389, 3706
Chiba, Y. 37, 2245, 6443
Chica, E. 5426, 11326
Chico, R. 575, 9191, 10544-10545, 10725, 10733
Chicote, I. M. 11473
Chiemsombat, P. 7881
Chiesa, F. 1265, 3536
Chihara, C. J. 2222
Chikatunov, V. I. 5359
Chikwenhere, G. P. 10461
Chilcote, C. A. 1538
Childers, C. C. 7489, 9436, 9720
Chillida, E. M. R. 5274
Chin, C. L. 761, 10876
China, All China Corn Borer Research Group 10590
Chinea, E. 1574
Chinery, M. 8166
Ching, G. F. 761
Chingon, T. G. 4803
Chiou, C. T. 8139
Chippendale, G. M. 1058, 2278, 4638, 5277, 8473
Chiranjeevi, P. 10369
Chiri, A. A. 4508
Chirkov, M. V. 9021
Chirnside, A. E. M. 10606
Chisholm, G. E. 4134
Chitra, K. C. 990, 11971
Chitramvong, Y. 3602
Chiu, H. T. 4707, 10657
Chiu, R. J. 1461
Chiu, S. F. 352
Chiverton, P. A. 8472
Chiykowski, L. N. 1932
Chkhaidze, T. A. 567
Chłodny, J. 7066, 8879
Chmielewski, W. 7092, 7121
Chmurzyński, J. A. 3376
Cho, C. I. 451
Cho, D. J. 1206, 3747, 8275
Cho, K. J. 856
Cho, N. H. 1370
Cho, W. S. 8297
Choe, K. J. 1370
Choi, C. S. 1705
Choi, H. K. 5530, 6069, 11931
Choi, K. M. 880-881, 1473, 3691, 5119, 8297
Choi, K. S. 4898, 8786
Choi, S. R. 293-294
Choi, S.Y. 1253
Choma, C. 1937
Chong, J. M. 1086, 8240
Choo, H. L. 11908
Choo, H. Y. 2347, 5046, 7618
Choo, T. S. 10887
Choon, K. Y. 6023
Chopra, N. P. 2483, 4940, 9065
Chou, I. 5388
Choudary, B. M. 8081
Choudhary, B. S. 8932
Choudhary, R. 2897, 11764
Choudhary, R. K. 6881, 8727
Choudhury, A. 1478, 3712, 5641
Chouène, E. C. 1586
Chow, K. M. 27
Chow, T. Y. K. 6096
Chow, Y. S. 853, 7069, 8797
Chowdhury, A. 430, 3696
Chowdhury, A. K. 6836, 10618, 10621
Chowfla, S. C. 5803
Chrispeels, M. J. 7374
Christeller, J. T. 472-473
Christensen, A. M. 3297
Christensen, K. 463, 975
Christensen, T. A. 2246
Christenson, T. 8381
Christian, P. D. 3467, 8040
Christiansen, E. 7929
Christiansen, T. A. 6653-6654
Christie, P. T. 8089
Chrysai, M. 1381
Chu, C. C. 10862
Chu, G. Z. 4023
Chu, Y. I. 4395, 4560, 4707, 4894, 5171, 10339, 11374
Chua, T. H. 7529
Chuah, C. H. 1351, 2523, 8230
Chudare, Z. P. 3114, 3116, 12027
Chuen, S. S. 1123
Chugh, S. N. 974
Chughtai, G. H. 5760
Chugunov, A. I. 8464
Chūjō, M. 5263, 5263
Chukhry, M. G. 11098
Chumak, P. Ya. 12028
Chuman, T. 9106
Chung, B. K. 8275
Chung, G. F. 10876
Chung, J. S. 10295
Chung, S. 1998
Chung, S. B. 10909
Chung, Y. S. 7155
Chungjatupornchai, W. 8975
Church, G. 5882, 10861
Churcher, J. 8869
Churchill, T. A. 58, 317, 2305, 3368, 6402
Chusova, V. N. 9070
Chutintrasri, B. 9751
Chvala, M. 3425
Chyb, S. 11316
Ciampolini, M. 3776, 5773
Cibrián-Tovar, D. 7009
Cicchetti, R. 3346
Cicero, J. M. 6248
Ciepiela, A. 2606-2607, 8467
Ciesielski, F. 2803
Cifuentes, J. 5391
Cifuentes-Diaz, C. 10284
Cilliers, B. 5591
Cilliers, C. J. 2569
Ciociola, A. I. 9718
Cipolletti, M. 2713
Ciprés, G. 1134
Ciurlino, R. 10704
Civas, A. 4550
Civerolo, E. L. 5747
Civetta, A. 11614
Civdanes, F. J. 745, 3656, 4625
Cladera, J. L. 11614
Clanciara, T. 8558
Clancy, K. M. 1773, 4980-4981, 7958
Clardy, J. 10051
Clare, G. K. 4421
Clari, A. I. 3464, 3931, 6957
Clark, A. G. 6294
Clark, C. L. 7075
Clark, D. R., Jr. 8122, 11999
Clark, J. D. 10640
Clark, J. M. 5191, 10117, 10131, 11984
Clark, M. R. 11998
Clark, S. 11937
Clark, S. J. 695
Clark, W. E. 8653
Clark, W. H. 3486
Clark, W. R. 1301
Clarke, B. A. 1449
Clarke, B. S. 8150-8152
Clarke, J. F. G. 1038
Clarke, S. R. 7936, 8839, 11801
Clarke, W. E. 1027
Clarkson, J. M. 6073, 9001
Clary, B. C. 5098
Class, T. J. 958
Classen, B. 1413
Classen, D. 7983
Clausen, T. P. 3027
Clausing, P. 6175
Clavijo A., S. 9563
Clay, K. 7672
Claydon, N. 3105
Clayton, J. S. 188
Clayton, P. B. 8700, 9025
Clayton, R. A. 9187
Clayton, T. E. 4938
Clemens, T. 2768, 10728
Clement, J. C. 2411
Clément, J. L. 10400, 10483
Clement, J. L. 10405-10406, 11042
Clement, S. L. 1379, 10635
Clementino, M. 4802
Clements, D. K. 2364
Clements, R. O. 6757-6758, 7679, 8535
Clerck, D. de 1218, 5418
Clercq, R. de 1876
Clifford, C. W. 7339
Clift, A. D. 10653
Cline, L. D. 3408, 6040, 11020
Cline, S. P. 10015
Clobert, J. 1200
Cloos, P. 981
Clouâtre, A. 8846
Cloudsley-Thompson, J. L. 1231
Clough, M. S. 8266
Cloutier, C. 7054, 8840, 9416, 11529
Cloutier, N. R. 4168
Clower, D. F. 748, 2923
Clulow, F. V. 4168
Cnandra, A. 5768
Coale, F. J. 7587
Coast, G. M. 60, 1075, 9270
Coates, W. W. 8577
Coats, J. R. 5213, 7225, 10131
Coats, S. A. 8644, 10720
Cobbinah, J. R. 4065
Cobos, A. 1821, 9149
Coceano, P. G. 8664
Cochreau, P. 10603
Cock, M. J. W. 1323
Cockfield, S. D. 4318, 5907, 10961
Cockrell, B. J. 331
Coddington, J. A. 8378, 9156
Coderre, D. 6714, 8846
Coelho de Miranda, L. E. 8953
Coffelt, J. A. 8937, 9838
Coffelt, M. A. 3962, 4970
Coffin, D. P. 8326
Cofrancesco, A. F. 9492
Cogburn, R. R. 7987
Cogger, C. G. 6186
Coggins, C. W., Jr. 8649, 10728
Cohen, A. 743
Cohen, A. C. 2448, 9271
Cohen, D. L. 10952

- Cohen, E. 5187, 11959
 Cohen, H. 4747
 Cohen, J. E. 236
 Cohen, M. 664
 Cohen, M. B. 3152
 Cohen, S. 1711, 1919, 10754
 Cohen, S. Z. 10144
 Coillie, R. van 2024
 Cokendolpher, J. C. 9156, 10394
 Colacci, A. 4192, 6188
 Colard, C. 10497
 Colazza, S. 5933
 Cole, C. 6905
 Cole, K. D. 3339
 Cole, K. J. 8629, 10699
 Cole, R. A. 8675
 Coleman, J. S. 5929-5930
 Coleman, M. S. 11108
 Coleman, R. J. 3130
 Coley, P. D. 9027
 Colgan, D. J. 3467, 4303
 Coli, W. M. 8605, 10704
 Colkesen, T. 3521-3522
 Collazo, E. 9721, 10461
 Collier, M. 3031
 Collier, R. H. 4808, 9761, 10819
 Collin, O. 3335
 Collinge, S. K. 6662, 7707
 Collingwood, C. A. 193
 Collins, G. 757
 Collins, M. D. 269
 Collins, M. S. 3577
 Collins, N. M. 5240
 Collins, P. J. 3062, 7100
 Collins, R. D. 2218, 6435-6436
 Collins, S. 10921
 Collman, S. 3963
 Colloff, M. J. 10021
 Colombia, Centro Internacional de Agricultura Tropical 712
 Colombo, G. 3323
 Colombo, J. C. 10150
 Colombo, P. C. 1141
 Combest, W. L. 2197, 3281
 Combs, R. L., Jr. 10491
 Comeau, A. 11529
 Comendador, M. A. 4143
 Compton, M. T. 8445
 Compton, S. G. 9699, 11656
 Compton, S. J. 718
 Concaro, G. 5582
 Concha, M. C. D. de la 3820
 Condic, M. L. 5421-5422
 Cone, W. W. 1608, 9512
 Confalonieri, V. A. 1141
 Conley, J. 2719
 Connat, J. L. 11331
 Connell, D. W. 2016
 Conner, J. 5009
 Conner, R. L. 4620
 Conner, W. E. 7560
 Connett, R. J. A. 7799
 Connick, W. J., Jr. 1934
 Connor, E. 8889
 Connor, E. F. 11006
 Connor, K. L. 4638
 Consolite, F. L. 7448
 Consorti, B. 11118
 Consoulas, C. 2163
 Constable, D. C. 844, 11857, 11860, 11865-11868
 Constantineanu, I. 2982
 Constantineanu, R. 2982
 Constantino, L. M. 2148
 Constantino, M. G. 1234
 Contarini, E. 2983
 Contreras, J. L. B. 402
 Contreras, N. 181
 Conway, K. E. 11606, 11608
 Cook, A. 300, 310, 313, 2550
 Cook, A. A. 1576
 Cook, A. F. 4619
 Cook, A. G. 5653
 Cook, C. A. 4161
 Cook, K. E. 2288
 Cook, P. 9254
 Cook, R. 483
 Cook, R. R. 2029
 Cook, S. P. 11812
 Cook L., J. 2308
 Cooke, D. A. 6245
 Cooke, N. G. 7346
 Cooke, P. H. 9281
 Cooley, S. S. 5727
 Coombe, P. E. 8250
 Cooper, C. M. 8129
 Cooper, D. E. 6244
 Cooper, E. L. 285
 Cooper, J. F. 7445
 Cooper, K. W. 9150
 Cooper, R. 5198
 Cooper, R. L. 2841, 5817
 Cooper, R. M. 1954, 1958, 1961, 4096, 4274, 4968, 6073, 8032, 9001
 Cooper-Driver, G. A. 11512
 Coors, J. G. 1452
 Cooter, J. 5387
 Copaja, S. V. 8231, 10571
 Copeland, A. R. 9073
 Copeland, J. 5543
 Copenhaver, P. F. 4335
 Copland, M. J. W. 4482
 Copping, L. G. 2112
 Corbitt, T. S. 2010
 Corcuera, L. 367
 Corcuera, L. J. 10578
 Corda, P. 11620
 Cordeiro da Silva, R. M. P. 5315
 Cordero, V. 429
 Cordon, S. 316
 Corey, D. T. 3977, 8379
 Corey, F. M., Jr. 2780
 Corino, L. 6228
 Cork, A. 409
 Corke, D. 9988
 Cornect, M. 7235
 Cornel, A. J. 8318
 Cornelius, M. L. 8366
 Cornelius, P. L. 5095
 Cornell, H. V. 1807, 7036
 Cornic, J. F. 10991
 Cornic, P. F. 11842
 Coro, F. 8247
 Corpuz-Raros, L. A. 5409, 7080
 Corral, J. M. M. del 4417
 Corrao, G. 11184
 Corrêa Costa, E. 5601, 5820, 5944
 Correia, A. C. B. 11429
 Corrette, B. J. 6579
 Corrigan, R. M. 7256
 Corsaro, B. G. 5111
 Corso, I. C. 4860
 Cortes, H. J. 7224
 Cortés, R. 4401
 Cortina, J. L. 9349
 Cory, J. S. 5077
 Cosenzo, E. L. 11415
 Cossentine, J. E. 890
 Cosson, R. P. 2023
 Costa, E. C. 4942, 5601, 5820, 5944
 Costa, F. G. 4357
 Costa, R. 5351, 8251
 Costa, S. D. 878, 8755, 8997
 Costa, T. C. S. 9896
 Costa Comelles, J. 4354
 Costa Leonardo, A. M. 1047
 Costantino, R. F. 7091, 7972
 Costanzo, R. B. 11140
 Coste, R. 6221
 Costello, W. J. 4319
 Côte, J. C. 7155
 Cotham, W. E., Jr. 3198
 Cottam, D. A. 8894
 Cottas, M. P. 8757
 Cotte, O. 3886, 3949, 9811
 Cotton, D. 2958
 Cottrell, G. A. 2546-2547, 6339, 6621
 Cottwald, R. 542
 Cotty, P. J. 5872
 Couch, J. A. 11952
 Couche, G. A. 3322, 4439
 Couderc, J. L. 7326
 Coudriet, D. L. 6974
 Coudron, T. A. 2450, 4131
 Couey, H. M. 3076, 3081
 Couillod, R. 5884
 Coulianos, C. C. 4998
 Coulon, M. 4564
 Coulson, R. N. 7028, 7949, 8898, 11844
 Coupland, D. 2001
 Couranjou, C. 4700
 Courtney, P. J. 7695
 Courtney, S. P. 10378
 Couto, L. A. 4466
 Couto, R. H. N. 4466
 Coutsis, J. G. 156
 Couvet, D. 6671
 Covarelli, G. 6149
 Covarrubias, R. 2337, 2578, 5029, 5425, 10424
 Covassi, M. 2981, 5934, 5968, 10000
 Covell, C. V., Jr. 9168
 Coviello, R. 8577
 Coward, N. P. 954
 Cowell, C. 7161
 Cowen, R. 10637
 Cowgill, S. 8350
 Cowie, A. 5153
 Cowie, R. H. 831, 2591, 5508, 6241, 8396, 11477, 11485
 Cowles, R. S. 715
 Cowley, J. M. 3733, 4687, 5360, 5685
 Cowling, R. M. 1789
 Cox, G. W. 8397
 Cox, J. M. 16, 7887, 8206, 11788
 Cox, P. D. 7103
 Cox, R. L. 1269, 1272, 1274, 7498-7499
 Cox, R. T. 10327
 Cox, S. C. 1098
 Coyne, J. A. 7708, 8282
 Craig, C. C. 9327
 Craig, C. L. 6556
 Craig, R. 5906, 7899, 8799
 Craig, T. P. 5918, 9935
 Craigmill, A. 6207
 Crane, E. 1241
 Cranshaw, W. 3035
 Cranshaw, W. S. 1681, 7011, 9626
 Crasela, J. J. 3545
 Crathorne, B. 5214
 Cratz, F. L. 5022
 Crause, C. 6843, 10736
 Cravedi, P. 8628
 Crawford, A. M. 4136
 Crawford, C. L. 7339
 Crawford, C. S. 10515
 Crawford, D. L. 10481
 Crawford, H. S., Jr. 8845
 Crawley, M. J. 2557, 3624, 6225, 6637
 Creamer, R. 10550
 Credland, P. F. 8000
 Crego, C. L. 6646
 Creighton, C. S. 9822
 Crescenzi, A. 6826
 Crespi, B. J. 2310, 5284, 6415, 9303
 Crespy, A. 8157
 Crestana, L. 2408
 Cretti, L. 5570
 Crews, C. 11017
 Criley, R. A. 9906
 Crim, J. W. 112, 9226
 Cripps, C. 7376, 11345
 Cristofaro, M. 4586
 Crites, J. L. 8978
 Crnjar, R. 3253
 Crocker, R. L. 1806, 11593
 Crocomo, W. B. 7580, 8757
 Croft, B. A. 1316, 1565, 2746, 3538, 6819, 8623-8624, 9685, 10174
 Crofton, K. M. 10120
 Croghan, P. C. 4343
 Croizier, G. 11106
 Croizier, L. 11106
 Crombie, L. 6235
 Cromroy, H. L. 2932
 Cronholm, G. B. 9570
 Cronin, J. T. 3008, 8899
 Crook, N. E. 5112, 11102
 Crosland, M. W. J. 1226, 5424, 10395
 Cross, B. 2108
 Cross, J. V. 491
 Crossley, D. A., Jr. 832-833, 7015, 10353
 Croughan, S. S. 2671, 2675, 9608
 Croveti, A. 11668
 Crowder, L. A. 2916
 Crowson, R. A. 3030
 Croxford, A. C. 8711
 Croy, R. R. D. 9105
 Crozier, R. H. 2426, 5424
 Crul, E. A. 9020
 Cruse, H. 6324
 Cruz, B. 4376, 4849-4850, 10790-10791
 Cruz, B. P. B. 4795
 Cruz, C. 1714, 3886, 9811
 Cruz, C. A. da 4962
 Cruz, F. Z. da 6837
 Cruz, I. 4674, 5623
 Cruz, J. C. 8477
 Cruz, M. A. 1543
 Cruz, M. A. O. M. da 1224
 Cruz, P. F. N. da 7258
 Cruz, V. R. 8770
 Cruz Landim, C. da 1047
 Csikos, G. 2200
 Csóka, G. 8851
 Cuany, A. 11217
 Cubbedge, R. H. 5101
 Cubeddu, M. 9749
 Cudjoe, A. R. 6934
 Cuellar, S. R. 428
 Cui, N. Z. 5845
 Cui, S. Z. 3932
 Culin, J. D. 10444
 Cullen, J. M. 2685
 Cullen, T. G. 9061
 Cummings, A. M. 6192, 7211
 Cummins, J. N. 9683
 Cunha, C. S. 4331
 Cunningham, A. 9701
 Cunningham, J. C. 7923, 7954, 8863
 Cunningham, R. T. 3081, 3144, 4428, 8966, 11359
 Cuperus, C. 1682
 Cuperus, G. W. 5098
 Curie, G. 8941
 Curl, E. A. 1925, 10598, 11191
 Curran, J. 1923, 1933
 Currans, K. 3538
 Currier, C. 7687-7688
 Currier, D. R. 2631, 10591
 Curry, K. 3447
 Curry, P. B. 8174
 Curtis, C. E. 5713
 Curto, G. M. 580
 Curzio, P. di 2713
 Cusack, T. 6093
 Cushing, N. L. 2809
 Cushman, J. H. 3615, 5433, 8285
 Cussigh, F. 9952
 Cusson, M. 34
 Cuthbert, B. A. 6509
 Cuthbertson, D. R. 6522
 Cutkomp, L. K. 7108
 Cutuli, G. 11655
 Cwikla, P. S. 465
 Cymborowski, B. 8257, 9306, 10312, 11970
 Cyprus, Department of Agriculture 6236
 Czajka, M. C. 6403
 Czaplá, T. H. 2194
 Czarnecki, E. 277
 Czechowski, W. 8327
 Czczuga, B. 3341
 Czerniakowski, Z. 4696
 Czolij, R. T. 4285
 Czosnek, H. 1711, 6056, 10846

Czuba, S. 8561
D'A, V. P. 4402
Da Cruz, M. A. O. M. 1224
Da Lage, J. L. 4360, 5290
Da Silva, F. C. 8449
Daamen, R. A. 9532
Daar, S. 11111
D'Abbicco, M. 3805
Dabi, R. K. 2854, 3683
Daboussi, M. J. 11085
Dąbrowski, Z. T. 1704
Dacanay, A. A. 6026
Dadheech, L. N. 11691
Dadkhah, Z. 4566
Daebeler, F. 604-605, 641-642, 2826
Dafni, A. 6993
D'Agaro, M. 3536
Daguzan, J. 5340
Dahal, G. 10622
Dahale, P. S. 595
Dahan, R. 488, 10847
Dahiya, A. S. 1573, 9756
Dahl, D. C. 2120
Dahlgren, J. 2045
Dahlman, D. L. 1296, 2280
Dahlsten, D. L. 10014, 10950
Dahm, K. H. 6356
Dahms, E. 9011
Dai, K. J. 9420
Dai, L. 5117
Dai, S. Y. 4107
Dai, W. 2185
Dai, X. F. 8776
Dai, X. J. 3686, 3781
Dai, Z. R. 10175
Daiber, K. C. 3755
Daigle, C. J. 9807
Dainton, B. H. 301
Dajoz, R. 5440
Dakin, M. E., Jr. 5378
Dakki, M. 10501
Dakshayani, K. 176
Dakshinamoorthy, T. 5632, 10022, 11055
Dalachow, J. 10899
Dale, J. R. 725
Dalhstein, D. L. 7947
Dali, H. 11313
Dalimov, D. N. 2015
Dalla Valle, E. 8807
Dallai, R. 2162, 3255, 4019, 6068, 6286
Dalle, E. 2092
Dallinger, R. 7546
D'Almeida, R. F. 5253-5254
Daloze, D. 6300
Dalvi, C. S. 7541, 10958
Daly, J. C. 5341, 11164
Daly, P. 1678, 3838
Dalzell, S. J. 4421
Damman, H. 7566
Damoiseau, R. 11288
Damroze, I. 1695
Danesh, D. 692
Danforth, B. N. 7316
Dangerfield, P. C. 263
Dani, H. M. 11996-11997
Daniel, O. 975
Daniel, T. C. 1792
Daniel, T. L. 7410
Danielle, R. R. 4509
Daniels, G. 1875
Danielsson, R. 10947, 11804
Danilevskii, A. S. 10187
Danilkina, E. N. 1236
Daniyarova, Kh. 2927
Dankocsik, C. 896
Danks, H. V. 9346
Dantart, J. 4396
Danthanarayana, W. 10328-10329
D'Antonio, C. 2489, 3412, 9418
Dantsig, E. M. 2937
Danu, V. P. 6119
Daoud, A. S. 121, 4181
Daoust, R. A. 3878
Dar, H. U. 10489
Darai, G. 4116-4117, 4125
Darbellay, C. 4714
D'Arcy, C. J. 1428, 11916
Dardaris, D. M. 8084
Daricheva, M. A. 3263
Darlington, J. P. E. C. 5518-5519, 5522, 6598, 11482
Darlington, M. V. 5220
Darlison, M. G. 2289
Daroogheh, H. 88
Darrah, L. L. 8490
Darshan Singh 618-619
Dartigues, D. 11427
Darvas, B. 4340, 7831, 9864, 11751
Darwish, A. 8977
Darwish, E. T. E. 406, 4768
Darwish, Y. A. 5744
Das, A. K. 3696, 10977
Das, B. 3166
Das, B. B. 5848, 6907, 9828
Das, B. C. 3648, 5012, 5480, 10686, 10981
Das, C. C. 8078
Das, G. R. 7648-7649
Das, K. G. S. 1782
Das, M. K. 7654
Das, N. M. 10742
Das, S. 1307, 5496, 8399, 8432
Das, S. C. 5536, 5901-5903
Das, S. K. 6611
Das, S. S. 3165
Dasgupta, S. 8056
Dash, A. K. 2530, 9473, 10330
Dash, A. N. 1670, 3165
Dashed, S. S. 2807
Dass, I. J. 5282
Dassd, I. J. 11502
Dastgheyb-Beheshti, N. 493
Dastugue, B. 7326
Daterman, D. E. 6006
Daterman, G. E. 9976, 10927
Datkhile, R. V. 7572
D'Aure, F. N. 8451, 9267, 10315
Daurova, E. G. 3780
Dauterman, W. C. 2930-2931, 3189
Davé, N. K. 4168
David, B. V. 1733, 2576, 6533, 9154, 10511, 10717
David, C. T. 1160
David, H. 6229, 6692, 7142
David, J. F. 10017
David, J. R. 3438, 4360, 5290
David, L. 4112, 5981
David, P. J. 3459, 3791
David, P. M. M. 4977, 11693
Davidová-Vilímová, J. 4287
Davidson, B. S. 246
Davidson, D. W. 8859, 10402
Davidson, J. A. 6999, 11007
Davidson, J. M. 10154
Davidson, R. L. 3604
Davidson, R. S. 11150
Davidson, S. 7184
Davies, D. H. 1295, 5309, 9430
Davies, R. J. 8942
Davies, R. L. 6487
Davies, S. E. 109
Davies, T. H. 4385
Davies, V. T. 5262, 11289
Davis, A. J. 3659
Davis, A. R. 11229
Davis, B. N. K. 6392, 7540, 9051
Davis, C. A. 4071
Davis, D. R. 4024
Davis, D. W. 4733, 8626
Davis, E. G. 9030
Davis, F. M. 2624, 4427, 4643, 4651, 5228, 7606, 7702, 9570, 9884, 10599
Davis, G. M. 9145
Davis, H. 9842
Davis, H. G. 7719, 7736
Davis, J. H. 4684
Davis, M. T. B. 1138
Davis, P. J. 1991
Davis, P. M. 8494
Davis, R. 2296, 11038
Davis, R. M. 9546
Davis, W. J. 9302
Davis, W. L. 7479
Davtyan, L. T. 3131
Davtyan, V. A. 2744
Davydova, M. S. 2094
Dawah, H. A. 6570, 9620
Dawood, N. T. 1205
Dawson, G. W. 954, 3137
Dawson, J. 81, 2204
Dawson, P. S. 5100
Dawson, P. S. S. 4133
Dawson, R. 10754
Dawson, S. 7890
Dawson, T. E. 9953
Day, K. E. 6172
Day, M. C. 7261
Day, R. 760
Day, S. J. 7011
Day, W. 1441
Dayal, R. 359, 361
Daza, M. 798
De, K. 6387
De, M. 1820
De Agüero, G. 3880
De Aizpúrua, C. G. 1194
De Araújo, J. R. 8448
De Baan, H. E. van 1565, 2745, 8623-8624
De Benedictis, J. A. 3254
De Besse, N. 11336
De Biase, L. M. 7609, 8800
De Bon, H. 1678, 10751
De Borger, R. 981
De Caloni, I. B. 1593
De Camargo, A. P. 8449
De Campos, J. P. 8691
De Carvalho, L. 8168
De Clerck, D. 1218, 5418
De Clercq, R. 1876
De Decker, N. 9377
De Dijn, B. 11287
De Ferrer, J. 7429
De Giovanni, G. 8807
De Godoy, J. R. 7580
De Goffau, L. J. W. 4000
De Gooijer, C. D. 11090, 11107
De Graan, P. N. E. 42
De Gregoriis, E. 8994
De Grégorio, R. 4444, 5417
De Groot, A. 5223
De Groot, A. E. 7794
De Groot, P. 5987, 8853
De Haro, A. M. 5946
De Herrera, J. R. B. 11246
De Jager, J. 5631
De Jong, E. J. 11447
De Jong, J. 1751
De Jong, M. 4774, 8344
De Jong, R. 3314
De Keer, R. 4693
De Kock, A. C. 8127
De Kock, A. E. 2417
De Kort, C. A. D. 1118, 5414, 11340
De la Guardia, R. Díaz 5426, 11326
De la Rosa, G. 8636
De la Rosa, M. E. 7722
De la Torre, J. 1214
De la Torre-Bueno, J. R. 3218
De Leenheer, A. P. 4515
De Leeuw, R. 4324
De Ley, F. 1694
De Lillo, E. 3628
De Little, D. W. 10965
De Loof, A. 1218, 3326, 3330, 5337, 5418, 7979
De los Angeles Martínez, M. 8794
De Luca, F. 8172
De Macêdo, M. V. 835
De Marzo, L. 3251, 10004
De Melo, A.B.P. 4608
De Meyer, M. 4491, 8203
De-Millo, A. P. 3877
De Miranda, S. H. G. 859
De Moraes, G. J. 1833, 5749, 5763, 7276
De Olano, I. 1176
De Pablo, J. 9349
De Pancorbo, M. A. M. 3599
De Paoli, M. 7968
De Renobales, M. 2283, 7376, 11345
De Renobles, M. 2282
De Ruiter, P. C. 3518
De Santis, L. 2444, 5690
De Siebenthal, J. 4879
De Silvestri, M. 7335
De Smet, G. 603
De Souza, B. 245
De Souza, J. C. 8756
De Steene, F. van 603, 9770
De Steven, D. 3958
De Toledo, Z. D. A. 11246
De Vasconcelos, H. L. 11834
De Veire, M. van 2791
De Villiers, E. A. 3815
De Villiers, M. 2164
De Villiers, W. M. 9372
De Vos, R. 2322
De Vries, F. W. T. Penning 444, 446, 5665
De Winter, A. J. 5537
Deacon, V. E. 9711
Deahl, K. L. 5843
Deák, P. 100, 11130
Dean, D. A. 2906, 3938, 4925, 7863, 8777
Dean, D. H. 11094
Dean, J. 5318
Dearn, J. M. 2406
Deaton, M. L. 5403
DeBarr, G. L. 7936, 8839, 11801
Debkirtaniya, S. 3166
Debnath, N. 1338, 4510
Debolt, J. W. 6571
Debon, A. 3199
Debounge, M. H. 2432
Debrey, L. D. 8660
Debrodt, B. 9218, 9224, 9229
DeBuchananne, G. D. 10144
Decazy, B. 762, 3950
Decker, N. de 9377
Declerck, K. 4693
DeClerck-Floate, R. 6705
DeClerk, R. 8419
Decock, J. 8975
Decoene, C. 2092
Dedkov, Yu. M. 10367
Dedryver, C. A. 2634
Dedyaev, V. G. 1442
Deecker, D. C. 5178, 10953, 11131
Deep, J. S. 10236
Deffernez, L. 9621, 10411
DeFoliat, G. R. 7468
Degaonkar, A. M. 4865
Degaspari, N. 4605
Degheele, D. 5114, 11159
Degrande, P. E. 4861, 8706
DeGregorio, R. E. 6629
Degrugillier, M. E. 4126
Degtyarev, B. G. 5501
Degtyareva, V. I. 6013
Deguine, J. P. 3735
Deitz, L. L. 7250, 7250, 8192, 9164
Dejean, A. 1341, 10419
DeJonge, J. O. 6177
Dekker, H. 8406
Del Bene, G. 9921, 11779
Del-Carratore, C. R. 6173
Del Frate, G. 3096
Del Guercio, G. 9511
Del Pozo, E. M. 9721
Del Rosario Alugaray, M. 7614
Delabie, J. H. C. 4948, 9891
Delachambre, J. 8938, 8941
Delaplane, K. S. 3073, 4552, 8961
Delate, K. M. 8937
Delbecque, J. P. 8938, 11331
Delfinado-Baker, M. 1266, 2104, 6587
Delgado, M. 5548
Delhanty, P. 10261

- Delinsky, H. 481
 Delisle, J. 6424, 9863
 Delius, H. 4116-4117
 Dellacasa, M. 9123
 Dell'Aqua, J. P. 6173
 DeLoach, J., Jr. 10517
 Delobel, A. 5831, 7993
 Delobel, B. 4480
 Delorme, J. D. 8874
 Delplanque, A. 4031, 5988
 Delucchi, V. 6816
 Delvare, G. 1000
 Delvi, M. R. 2236
 Demain, A. L. 11063
 Demakov, Yu. P. 1801
 DeMars, C. J. 10919
 Demchak, R. J. 11198
 Demchenko, A. V. 2433
 DeMilo, A. B. 10163
 Dempster, J. P. 6430
 Demura, M. 6296, 10493
 Den Assem, J. van 2503, 3561, 4487
 Den Berg, A. M. van 162
 Den Berg, A. van 162
 Den Berg, H. van 1323, 1833, 10453
 Den Berg, M. A. van 2769
 Den Boer, M. H. 5681
 Den Boer, P. J. 10446-10448
 Den Bosch, J. van. 6773
 Den Brock, A. T. M. van 42, 1276, 2407
 Den Driessche, P. van 7163
 Den End, E. J. van 11090, 11107
 Den Otter, C. J. 6303, 6803
 Den Ouden, H. 3899
 Dendy, J. 6715
 Denegri, J. C. 4197
 Deneubourg, J. L. 2422, 6437, 7487, 7960, 9352, 9382, 10418
 Deng, C. S. 3086
 Deng, G. Q. 2462
 Deng, W. X. 4060, 5445
 Deng, X. 7735
 Deng, X. L. 9462
 Deng, Y. I. 4958
 Deng, Z. H. 5905
 Denholm, I. 6144, 7178, 10859
 Denisova, A. A. 5359
 Denlinger, D. L. 3321
 Denmark, H. A. 1040, 6841
 Denmark, Pest Infestation Laboratory 5247
 Denmark, Planteværnscentret 10222
 Dennehy, T. J. 2737, 2739, 4754, 5730, 9666, 10186, 11623
 Denneman, W. D. 9100
 Dennill, G. B. 6658, 7556
 Dennis, B. 9614
 Dennis, P. A. 10435
 Denno, R. F. 7401
 Denoroy, L. 4333
 Denoyes, B. 3838
 Denton, G. R. W. 8433
 Denucci, S. 8953
 Denys, A. 7954
 Deol, G. S. 11028
 Deole, J. Y. 8744
 Der Blom, J. van 10348
 Der Goot, V. S. van 6256
 Der Haagen, M. M. van 6303
 Der Horst, D. J. van 1276, 2407
 Der Kraan, C. van 8307
 Der Linde, T. C. van 6599
 Der Linden, A. van 4536
 Der Meijden, W. van 10512
 Der Meulen, T. van 7886, 10714
 Der Pers, J. N. C. van 89
 Der Vaart, H. R. van 2333
 Der Weel, J. J. van 4230
 Der Westhuizen, M. C. van 5631, 5796, 6599, 8469
 Der Wilk, F. van 4124
 Der Zijpp, S. van 1518
 Derby, J. L. 8419
 Dercks, W. 8665
 Dergalyuk, M. K. 3118
 Dergsen, A. C. G. 6076
 Derrick, K. S. 11121
 D'Errico, F. P. 6826
 Derron, J. O. 3651, 7166, 8062, 10570, 10830
 Des Vignes, W. G. 433
 Desai, P. 4158
 Desaijah, D. 970, 11186
 Deschka, G. 829
 Descimon, H. 5292
 Descoins, C. 3959
 Desender, K. 4532, 4693, 11287, 11455
 Deseč, K. V. 8981, 10205
 Deshmukh, A. D. D. 7141
 Deshmukh, I. 5509
 Deshmukh, P. D. 11568
 Deshmukh, S. D. 5194
 Deshmukh, V. A. 7615
 Deshpande, A. A. 2034, 2668
 Deshpande, A. D. 7141
 Deshpande, S. G. 6216
 Dési, I. 4208
 Despins, J. L. 7467
 Desroches, P. 11897
 Desvignes, J. C. 1568
 Dethe, M. D. 1680, 1724, 7572, 7844
 Dethier, V. G. 6429
 Detrain, C. 10417
 Detrich, P. J. 10148
 Dettlaff, T. A. 11251
 Dettmann, E. B. 10124
 Dettner, K. 6219
 Deuben, B. D. 548
 Deura, K. 9984
 Deuse, J. P. L. 4227
 Deutsch, P. 11686
 Deuve, T. 1042, 2365, 5257
 Devadas, V. 9903
 Devaiah, M. C. 2729
 Devarajah, F. R. 256
 Devasahayam, S. 3637, 6799, 7846, 10532, 11521
 Devauchelle, G. 4121
 Devay, P. 55
 Deverna, J. 757
 Devi, C. M. 3837
 Devi, G. S. 3177
 Devi, L. S. 5865
 Devi, N. 7324
 Devi, N. A. 7808-7809
 Devi, S. S. 3754
 Devika, R. 5658, 5661
 Devkota, B. 3016
 Devnath, S. 5904
 Devonshire, A. L. 3171, 7178
 DeVries, P. J. 2977, 9297
 Devyatkin, A. L. 11408
 Dewar, A. 2859, 5838
 Dewar, A. M. 8728, 11739
 Dewhurst, C. F. 3140
 Dey, L. 8078
 Deyrup, C. L. 6859
 Deyrup, M. 3609-3610, 4448
 Deyrup, M. A. 1223, 5566, 10451
 Deyrup-Olsen, I. 319, 3610
 Dhaliwal, G. S. 6736, 9598
 Dhaliwal, H. S. 11028
 Dhaliwal, J. S. 1647, 1652, 2666
 Dhaliwal, M. S. 9852
 Dhaliwal, Y. S. 7973
 Dhaliwal, Z. S. 6691, 9920
 Dhamdhare, S. V. 601, 2793, 2812, 2976, 3713, 3716, 3867, 5830, 10024
 Dhamu, K. P. 7269
 Dhanaraj, P. S. 2047
 Dhandapani, N. 746
 Dharajothi, B. 10732
 Dharane, P. K. 1724
 Dharmalingam, C. 7807
 Dharne, P. K. 7844
 Dharpure, S. R. 6909, 8648
 Dhawan, A. K. 2920, 5891, 6962-6963, 6973
 Dhawan, N. 10956
 Dheranetra, W. 9076
 Dhilepan, K. 499
 Dhillon, N. P. S. 1631
 Dhillon, S. S. 7995
 Dhillon, W. S. 4717
 Dhiman, A. 10774
 Dhiman, J. S. 646
 Dhiman, S. C. 5494, 5497
 Dhimon, S. C. 4685
 Dhingra, A. K. 3182
 Dhingra, M. R. 2812
 Dhingra, S. 3159, 11986
 Dhooria, M. S. 10780
 Dhuri, A. V. 2642, 2830, 2840
 Di, Y. B. 5148
 Di Benedetto, R. 2360, 9335
 Di Curzio, P. 2713
 Di Giuliantonio, R. 2713
 Di Martino, E. 2766, 8641
 Di Muccio, A. 6151
 Di San Lio, G. M. 6831
 Diab, M. M. 3911, 4051
 Diakonoff, A. 10230
 Dial, C. I. 6410, 8268
 Dias, C. A. R. 7997-7998
 Dias, M. M. 5953
 Diatloff, G. 1390
 Diatta, F. 4195
 Díaz, A. 1574
 Díaz, F. 4197
 Díaz, N. B. 270
 Díaz, N. P. 8984
 Díaz, S. M. 4677
 Díaz-Benjumea, J. 9273
 Díaz de la Guardia, R. 5426, 11326
 Díaz Ruiz, J. R. 8671
 Dibyantoro, A. L. H. 594, 3913, 5780, 5854, 5866
 Dibyantoro, H. 11695
 DiCapua, R. A. 892, 4094
 Dicke, F. F. 6717, 7607, 9556
 Dicke, M. 628, 7794, 8344, 10453, 10464
 Dickens, J. C. 2213, 6969, 10276
 Dickens, R. 1397
 Dickerson, O. J. 1534
 Dickerson, W. A. 9882
 Dickgiesser, N. 2055
 Dickson, M. H. 1621, 9773
 Dieckmann, L. 3433, 7461
 Diederer, J. H. B. 1103, 4324
 Diehl, S. R. 5727
 Diehl-Fleig, E. 7480
 Diekmann, O. 3540
 Dieleman, F. L. 1609, 8667, 9750
 Diercks, R. 7165
 Dierickx, S. 8975
 Dietert, R. R. 1444
 Dietrich, C. H. 3259
 Dietz, A. 7496
 Diffie, S. K. 6515
 Dijken, M. J. van 6936-6937
 Dijkerman, H. J. 3546, 10454
 Dijn, B. de 11287
 Dike, M. C. 6680
 Dikshit, A. K. 606, 5807, 7822
 Dikshith, T. S. S. 2042
 Dilawari, V. K. 6497, 7237
 Dilbaryan, K. P. 5694
 Dillaha, T. A. 6191
 Dillard, C. R. 11456
 Dillard, H. R. 1450
 Dillon, R. J. 7138, 8986
 Dillwith, J. W. 7695
 Dimetry, N. Z. 2583, 7185
 Dimić, N. 829
 Dimitriadis, G. J. 76, 1137
 Dimock, M. B. 688
 Dimond, J. B. 5394
 Dinan, L. 3327, 3344, 10307
 Dindo, M. L. 252, 255, 1896, 6039, 8960
 Ding, B. Y. 11002
 Ding, D. 5613
 Ding, D. C. 5470
 Ding, J. 5028
 Ding, J. H. 2585, 9515
 Ding, Q. Q. 3087
 Ding, Y. G. 4958
 Ding, Y. S. 3290
 Ding, Z. 3697
 Ding, Z. K. 738
 Dingle, H. 1145, 4372
 Dinmond, J. B. 8905
 Dinnel, P. A. 6198
 Dintenfass, L. P. 2684
 Dionisio, M. H. 3971, 4281
 Dionizio, A. L. M. 8831
 Dippenaar-Schoeman, A. S. 162, 2358, 11457
 Dirdiri, N. E. 2048
 Dirlbek, J. 6928
 Dirlbeková, O. 6928
 Dirzo, R. 10999
 Disney, R. H. L. 4257, 6278, 7008, 7263, 10485
 Dittmann, F. 2275
 Dittrich, A. P. M. 9230
 Diwakar, M. C. 2652, 4789, 5586
 Dix, M. E. 3003
 Dixit, V. K. 5578
 Dixon, A. F. G. 137, 269, 3256-3257, 5395, 5594, 6354, 8458-8459, 8459, 9171, 9174, 9212, 10256, 10258
 Dixon, P. D. 70
 Dixon, P. L. 8739
 Dixon, W. N. 7955
 Djamgoz, M. B. A. 81, 2204
 Djeballi, A. 11085
 Doane, J. F. 2610, 6705
 Dobbs, A. J. 5214
 Dobie, P. 6715
 Dobroserdov, S. G. 484
 Dobrovol'skaya, S. I. 381
 Dobson, A. P. 7534
 Dobson, H. 2214
 Docavo, I. 11469
 Dodd, A. A. 1332
 Dodd, J. 5552
 Doddema, L. 5223
 Dodhiwala, N. S. 11985
 Dodia, J. F. 8765
 Dodson, B. L. 1793
 Dodson, G. 1875
 Dodson, S. 6578
 Doeleman, J. A. 8416
 Doerfler, W. 8044
 Doesburg, P. H. van 3245
 Dogger, J. R. 6495
 Doggett, H. 2102
 Dogheim, S. M. 1407, 8092
 Dogra, A. K. 9279
 Dogra, G. S. 7732, 9185
 Dohlen, C. D. von 7938
 Dohrmann, C. E. 10263
 Dohroo, N. P. 10526
 Doi, T. 6480
 Doira, H. 2274
 Dom, N. ben 7794
 Dombek, V. 11141
 Dombrosky, S. A. 5994
 Domek, J. M. 7352
 Domenichini, G. 11021
 Domingo, G. C. 4906
 Domingues, E. P. 714
 Domínguez, A. 136
 Domínguez, B. M. 1579
 Domínguez, D. 498
 Domínguez de la Concha, M. C. 3820
 Dominiak, B. C. 3736
 Dominici, M. 519, 519, 731
 Domis, G. M. 8837
 Don-Pedro, K. N. 6017, 7102
 Donaghy, C. 6489
 Donahay, E. 11038
 Donahue, J. P. 3413
 Donahue, S. J. 10697
 Donaldson, J. M. I. 10475
 Donaldson, J. S. 209
 Donath, H. 206
 Donato, K. 6945
 Donatoni, J. L. 3464, 3931, 6957
 Dondale, C. D. 7025

Donegan, K. 4138
 Dong, H. F. 2458
 Dong, S. 11002
 Dong, Y. G. 3127, 5874
 Donner, H. 6462
 Donova, W. P. 896
 Donskov, N. 8373
 Donzele, J. L. 3053
 Doolittle, R. E. 8234
 Doorn, J. M. van 1276, 2407
 Doraisamy, P. 9757, 10607, 11574
 Doraiswamy, S. 4088
 Dorinina, G. M. 3122
 Dormond, M. 6991
 Doronina, G. M. 8463
 Doroshenko, N. D. 7834
 Dorow, W. H. O. 9519
 Doroz, J. 2874
 Dorris, P. R. 5454
 Dorschner, K. W. 6672
 Dorselaer, A. van 4333, 10303
 Dos Santos Serodio, R. 7988
 Dosba, F. 1568
 Doss, R. P. 9654
 Dotinga, F. D. 9772
 Dottori, M. 10478
 Doube, B. M. 11495
 Doucet, R. 1994
 Douenel, C. 4155
 Dougherty, E. M. 3853
 Douglas, A. E. 5395, 11379
 Douglas, L. 11763
 Douglas, S. M. 1556
 Douglass, L. W. 10952
 Douguet, S. 2348
 Douie, C. 1789
 Douma-Petridou, E. 3016
 Doumbia, Y. O. 457, 3720
 Douth, R. L. 2767
 Douwes, P. 1843
 Dover, B. A. 1295
 Dover, J. 8457
 Dover, J. W. 7597, 9530
 Dow, J. A. T. 4339
 Dow, R. C. 4289
 Dowd, P. F. 354, 873, 4174, 4182, 4382, 5294, 6021, 8233, 8498, 11158, 11160
 Dowdy, A. K. 3743
 Dowell, R. V. 1759, 1984, 3753
 Downe, A. E. R. 50
 Downes, J. A. 4241
 Downes, M. J. 8668
 Downing, H. A. 6409
 Downing, R. S. 1562
 Downum, K. R. 3222
 Doyen, J. T. 3983, 8198
 Doyle, T. C. 4330
 Dozier, B. K. 2988
 Draeger, E. A. 8666, 9271
 Dragan, V. A. 11310
 Drake, G. E. 9568
 Drake, S. R. 1901
 Drake, V. A. 1157, 2321
 Drane, J. W. 5824
 Draskovits, A. D. 8441
 Dray, A. 10376
 Dray, F. A., Jr. 9492
 Drea, J. J., Jr. 4016
 Drego, J. 7222
 Dreher, R. M. 6479
 Dreier, A. F. 4618
 Dreistadt, S. H. 7947, 10014, 10950
 Dremova, V. P. 1992
 Drescher, W. 1260, 6200, 7490, 7493-7495
 Dreux, P. 1186, 4389
 Drew, R. 4307
 Drew, R. A. I. 13
 Drew, R. T. 8106
 Drewes, C. D. 6329
 Dreyer, D. L. 10976
 Dreyer, E. 568
 Driel, J. W. van 1830
 Driesche, R. G. van 613, 8264, 11698
 Driessche, P. van den 7163

Drif, L. 77, 2184
 Drinkwater, T. W. 5627-5628, 6716, 9572, 9574
 Dripps, J. E. 9835
 Driscoll, T. 1547
 Driver, G. C. 4170
 Drobniowski, F. A. 8017
 Drugowich, S. M. I. 8770
 Drummond, D. 7949
 Drummond, F. 10828
 Drummond, F. A. 1315, 1708
 Drummond, J. 5138, 11938
 Druschke, A. 5061
 Du, J. 5028
 Du, J. W. 1467, 3668, 3686, 3781
 Du, T. Y. 5905, 6825, 9462
 Du Merle, P. 10991, 11842
 Du Toit, A. P. 2992
 Du Toit, F. 9541, 11536
 Duan, J. J. 8593
 Duan, Y. B. 7012
 Dubas, F. 6336
 Dube, S. 10535
 Dübendorfer, A. 11332
 Dubey, G. S. 6887
 Dubey, R. C. 5585
 Dubey, R. P. 6196
 Dubis, E. 4063
 Du Bois, N. R. 3000
 Duce, I. R. 1213
 Ducoff, H. S. 1143
 Ducros, P. 2356
 Ducrot, V. 5704, 5707-5708
 Dudley, N. J. 666
 Duelli, P. 5437
 Duff, S. R. 7497
 Duffault, J. M. 9205
 Duffels, J. P. 10239
 Duffey, S. 6300
 Duffey, S. S. 6945, 8758, 9847, 10282, 10385
 Duffield, R. M. 2206, 7341, 8871
 Duffus, J. E. 1919, 10754
 Dufrêne, M. 11011
 Dugdale, J. S. 4715
 Duguay, M. M. 10146
 Duhra, M. S. 9529
 Duijm, M. 6372-6373
 Duke, E. J. 1067-1068
 Duktshene, R. K. 6569
 Dukštienė, R. 6569
 Dul'gerova, V. A. 5501
 Dulinafka, G. 8439, 9864
 Dulmage, H. T. 1947
 Duman, J. G. 821
 Dumbre, R. B. 7541, 10958, 11674
 Dumčius, O. 5999
 Dumortier, B. 7418
 Dunaeva, T. P. 4210
 Duncan, F. D. 2670, 6751, 11601
 Duncan, G. H. 7124, 7890
 Duncan, R. 6840, 7060
 Duncan, R. R. 1496
 Duncan, R. W. 7924
 Duniway, J. M. 11944
 Dunkel, F. V. 3051
 Dunkelblum, E. 1088, 2220, 2783, 3023
 Dunkle, R. L. 11907
 Dunn, P. E. 2185, 5474
 Dunn, P. H. 1379, 5558
 Dunphy, G. B. 1935, 3107, 4111, 8024
 Dunstan, W. R. 3140
 Duque, I. T. 1580
 Durai, P. S. 1767
 Durairaj, C. 10610
 Durant, J. A. 5887
 DuRant, J. A. 6981
 Durdvey, S. K. 1555
 Dureja, P. 3202
 Duriat, A. S. 699-700
 Durrand, P. K. 1958
 Durst, F. 3333
 Dušek, J. 3549, 3639
 Dusenbery, D. B. 912, 5372, 10345

Dušková, J. 3639
 Dusky, J. A. 6649, 9739
 Duso, C. 520, 4723
 Dussourd, D. E. 3337
 Dutcher, J. D. 2818, 3774
 Dutrieu, J. 3276, 4301
 Dutt, N. 421, 5478-5479, 6164, 8123
 Dutta, O. P. 7766
 Dutta-Gupta, A. 3329, 5342, 6290, 7377, 11325
 Duva, A. 505
 Duyn, J. W. van 2839, 7612, 11724
 Duyn, P. van 3862
 Dvoryankina, V. A. 1437
 Dwivedi, B. K. 11883
 Dwivedi, U. S. 10024
 Dwumfour, E. F. 9447
 Dwyer, K. G. 1957
 Dwyer, L. A. 2282-2283
 Dyadechko, N. P. 625
 D'yankonchuk, L. A. 10197
 Dyar, H. C. 6503
 Dyar, H. G. 6611, 6753, 7805, 8218, 11795
 Dybas, R. A. 2798, 5783, 11198
 Dyer, S. D. 10131
 Dymock, J. 472
 Dymock, J. J. 469, 6773, 9108
 Dysart, R. J. 6542
 Dyrich, G. F. 211
 Dyusembaev, E. B. 1171
 Dzantor, E. K. 9099
 Dzhandzhgava, M. M. 11303
 Dzhankmen, K. A. 2519
 Dzhashi, V. S. 4960
 Dzhumaev, Sh. B. 274
 Dzhunedzha, N. 5873
 Dzyanisava, S. I. 3593
 Eagling, D. R. 5684
 Eakin, R. M. 9236
 Earle, E. D. 5844, 8499
 East, D. A. 4829
 East, P. D. 128
 Eastop, V. P. 5264
 Easwaramoorthy, S. 3094, 4483, 6229, 7142, 9005
 Ebata, T. 10279
 Ebberts, A. 8307
 Ebejer, M. J. 11398
 Ebel, B. H. 7009
 Ebener, T. 5774
 Ebert, D. 314
 Ebert, W. 917
 Ebesu, R. H. 9458
 Ebing, W. 9117, 10180, 10182-10183
 Eccleston, J. 6564
 Echendu, N. 11746
 Echendu, T. N. C. 651, 11717
 Eckenrode, C. J. 8698, 8752
 Eckert, H. 673
 Eckert, M. 9240
 Eckweiler, W. 6472
 Ecobichon, D. J. 3038
 Economopoulos, A. P. 4426, 5399, 10382, 11404
 Ede, F. 2001
 Edelson, J. V. 2861, 4826, 4829, 5857, 11115-11116
 Edelstein-Keshet, L. 6449
 Edens, T. C. 1708
 Edigaryan, S. E. 729, 2787
 Edland, T. 7068, 10391, 10662, 10707
 Edmonds, D. T. 260
 Edmunds, M. 7039, 8891
 Edongali, E. A. 500
 Edward, D. H. D. 7228
 Edwards, C. R. 9809
 Edwards, D. C. 5772
 Edwards, D. R. 10854
 Edwards, E. D. 11803
 Edwards, G. B. 2342, 8376, 8712
 Edwards, J. P. 6126
 Edwards, J. S. 9193
 Edwards, M. A. 10166-10170
 Edwards, P. B. 11005

Edwards, P. J. 8711, 11191
 Eeuwijk, F. A. van 3518, 9231
 Efrat, C. 1256
 Egarter, D. E. 7134
 Egger, A. 10989
 Egger, E. 11627
 Eggers-Schumacher, H. A. 6673
 Eghtedar, E. 492, 945, 3370
 Egina, K. Ya. 3115, 3117
 Eglal, H. 10250-10251
 Egli, T. 9095
 Eglite, D. M. 3114
 Egorov, N. S. 8019
 Eguchi, E. 10301
 Eguchi, M. 2191, 3586, 10267
 Egwuatu, R. I. 6932
 Ehara, S. 11826
 Ehler, L. E. 1590, 4597, 7282
 Ehmke, A. 5286
 Ehrlich, P. R. 1140, 2320, 2366, 3374
 Eichelkraut, K. 1469
 Eichhorn, O. 9987
 Eichlin, T. D. 14, 8875
 Eichwort, G. C. 7515
 Eickbush, T. H. 298
 Eickwort, G. C. 1242, 4499
 Eid, M. A. A. 6950
 Eid'berg, M. M. 546
 Eidelman, J. 8103
 Eidmann, H. H. 1836, 3017
 Eidt, D. C. 7914
 Eigenbrode, S. D. 9773
 Eighme, L. E. 4255
 Eickenbary, R. D. 7719
 Eimeren, B. van 2409
 Einhorn, J. 3794
 Eischen, F. A. 7496
 Eisemann, C. H. 1108
 Eisen, N. S. 1070
 Eisenberg, A. 7530
 Eisenberg, R. M. 4519
 Eisenwiener, U. 1847
 Eisner, M. 7462
 Eisner, T. 246, 1762, 3337, 7462, 7560, 8354
 Eitschberger, U. 1041
 Eizaguirre, M. 389, 8598
 Ekbo, B. S. 2818, 4623
 Ekström, G. 7280
 Ekukole, G. 10636
 El-Abjar, Z. E. 4701
 El-Agami, F. M. 5835
 El-Agban, M. A. 10501
 El-Assar, M. R. 1683
 El-Atta, H. A. 1881
 El-Bagoury, M. E. 1029, 2577, 2788
 El-Bakri, A. 5510-5511
 El-Banhawy, E. M. 4294, 5439
 El-Beheri, M. M. 223, 654
 El-Borolossy, M. 2726, 2741, 3796, 6780
 El-Bouhssini, M. 6701
 El-Din, O. S. E. 1921
 El-Duweini, F. K. 1291, 1731, 3162
 El-Ela, N. A. 11207
 El-Fiki, S. 11207
 El-Gayar, F. 10723
 El-Ghareeb, A. M. 3155
 El-Ghareeb, A. R. M. 11209
 El-Guindy, M. A. 2905
 El-Hakim, A. M. 3361
 El-Halawany, M. E. 4270
 El-Halfawy, M. 2041
 El-Hassani, A. 5984
 El-Helaly, M. S. 2012-2013
 El-Heneidy, A. H. 650
 El-Herrawi, M. A. 2834
 El-Husseini, M. M. 227, 860-861
 El-Idrissi-El Aammari, M. 10735
 El-Imery, S. M. 571
 El-Kady, E. A. 553, 574, 650
 El-Lakwah, F. A. 4055
 El-Malla, M. A. 3208
 El-Masry, M. 11207
 El-Monem, E. M. A. 3149

- El-Naggar, M. E. 224, 662
 El-Nahal, A. K. M. 6678
 El-Najjar, S. J. T. 6043
 El-Nakhlawy, F. S. 10856, 10858
 El-Nakkadi, A. N. 6950
 El-Nayir, H. 6155
 El-Okda, M. M. 1683, 2864
 El-Rahman, A. 1470
 El-Ridi, R. 285
 El-Sadek, M. M. 1913, 11050
 El-Sayed, E. I. 3935
 El-Sayed, F. M. A. 3065
 El-Sayed, G. N. 2880, 4131
 El-Sayed, M. M. 2834
 El-Shahaat, M. S. 2041
 El-Sharkawy, M. 2878
 El-Sheikh, F. M. 2012-2013
 El-Shishiny, H. 1165
 El-Sufty, R. 482
 El-Tayeb, Y. M. 6966
 El-Yousfi, M. 7021, 8833, 10001
 Elam, P. 11920
 Elamin, E. M. 6687
 Elazegui, F. 7616
 Elaine, N. 5510-5511
 Elden, T. C. 7693, 10656
 Elder, R. J. 8657
 Elekes, K. 2240
 Elferen, J. H. W. M. van 4975
 Elfferich, N. W. 140
 Elgin, J. H., Jr. 7693, 8176, 10656
 Elgueta, M. 4596
 Elia, P. 10685
 Elin, E. S. 1987
 Elissalde, M. H. 11167
 Elizen, G. W. 4916
 Elkins, R. B. 523
 Elkinton, J. S. 3006, 3458, 5940, 7944, 7959, 9970, 11698, 11810
 Ellaithy, A. Y. M. 11439
 Ellar, D. J. 1930, 7123, 8009, 8012, 8014, 8017
 Eller, F. J. 6441, 8375
 Ellersieck, M. R. 7194
 Ellgaard, E. G. 1228
 Elliger, C. A. 9040
 Ellington, C. P. 8227
 Elliott, A. J. 1063
 Elliott, C. 11191
 Elliott, C. J. H. 3273
 Elliott, H. J. 10965
 Elliott, J. E. 9086
 Elliott, M. 6125, 11146-11147, 11239, 11964-11966
 Elliott, M. S. 5815
 Elliott, N. C. 1451, 2614, 4377, 8455, 9319, 11541, 11546
 Ellis, C. R. 7882, 9557
 Ellis, M. 1274
 Ellis, N. W. 3026
 Ellis, R. T. 3872
 Ellis, S. A. 8535
 Ellison, R. 6416
 Ellsbury, M. M. 7702
 Ellsworth, P. C. 7612
 Elmes, G. W. 9379, 10414
 Elmore, C. L. 523
 Elnagar, S. 10552
 Elsakova, S. D. 511
 Else, G. R. 2363
 Elsey, K. D. 6877, 11071, 11361
 Elsworth, J. F. 59
 Elyamany, A. H. 11195
 Elzen, G. W. 1298, 4308, 7871
 Elzen, W. 2901
 Em, E. 10867
 Embden, F. I. van 5954
 Emberton, K. C. 9145
 Embleton, T. W. 8649, 10728
 Emden, H. F. van 3870-3871, 5812, 6227, 7679, 8678
 Emebiri, L. C. 11886
 Emel'yanov, V. A. 4783
 Emmett, R. W. 1551, 2710
 Emon, J. van 6484
 Emond, F. J. 7063
 Enan, E. 11207
 End, E. J. van den 11090, 11107
 Enders, D. 4052
 Endo, K. 2271
 Endo, S. 7637, 10104, 10157
 Endo, Y. 3305
 Endou, T. 7894
 Endrödi, S. 8169
 Enfield, F. D. 10319
 Engelhardt, H. 3445
 Engelhardt, M. 2742, 4762
 Engelhardt, T. 3760, 8060
 Engelke, M. C. 11593
 Engelken, L. K. 10592
 Engels, W. 10189
 Enghoff, H. 1339, 7433
 England, A. 7866
 Englberger, K. 4085
 Engle, C. E. 6800
 Engler, R. 8174
 English, L. H. 2203
 English, W. R. 11633
 English-Loeb, G. M. 11714
 Enjuanes, L. 9200
 Enkerlin H., W. R. 11892
 Enliley, M. R. 11935
 Ennet, D. 2052
 Ennos, A. R. 3261, 8227-8228
 Ennos, R. A. 4702
 Enriquez, R. M. 6218
 Ensor, K. L. 8110
 Entwistle, J. 8459
 Entwistle, J. C. 5602, 8459
 Entwistle, P. F. 5077, 5129
 Épova, V. I. 1809
 Epperly, D. 5098
 Epsky, N. D. 3669
 Epstein, M. E. 8361
 Epstein, R. L. 3447
 Epstein, W. W. 10402
 Equihua-Martínez, A. 9329
 Eraky, S. A. 7966
 Erbenová, M. 11649
 Erdelen, C. 3636
 Ereemeva, L. S. 11956
 Eremenko, T. S. 2904
 Erhard, M. H. 11144
 Erhardt, A. 10338
 Erichsen, E. 604
 Erickson, B. J. 3946
 Erickson, E. H., Jr. 3946
 Erickson, P. 8128
 Eriksson, R. L. 11109
 Ering, M. 11179
 Eritsyán, D. A. 729, 2787
 Erlandson, M. A. 11926
 Erler, J. 9208
 Ermicheva, F. M. 214
 Ermilov, A. S. 10572
 Ermolenko, V. M. 10197
 Ernst-Utzschneider, K. 4292
 Ernsting, G. 3518
 Erokhina, S. A. 3146
 Errampalli, D. D. 2880
 Errard, C. 10404-10405
 Ershov, S. A. 6703
 Ershova, E. A. 5195
 Erstfeld, K. M. 10147
 Esbjerg, P. 3832, 10821
 Esch, J. van 5806
 Escobar, J. S. 4797
 Escribano, J. A. 4719
 Escudero, J. 10067
 Éshba, D. A. 3813
 Eskafi, F. M. 6583
 Eskola, P. 7183
 Eslami, A. 692
 Eslami, J. 1900
 Espelie, K. E. 2210, 10392
 Espig, W. 2268
 Espin Garcia, A. T. 5105
 Espinosa, B. 5895, 9888
 Espinosa, G. 9267, 10315
 Espinoza, A. M. 1703
 Esposito, R. M. 11407
 Estano, D. B. 3701, 10625
 Estebenet, A. L. 1372
 Ester, A. 4870, 5840, 8735
 Estevam, R. do C. 10548
 Estévez, A. L. 4518
 Estomba, A. 2549, 7549
 Estrada, E. G. 9330
 Etcheverry, M. 2357
 Etho, H. 9799
 Etienne, J. 10226
 Etman, A. A. M. 9326, 11041
 Eto, K. 7215
 Eto, M. 930, 1357, 2008, 10097, 10121
 Etoh, K. 2021
 European Grassland Federation 8175
 Eustis, S. L. 8106
 Evans, A. V. 3508
 Evans, D. C. 2625
 Evans, E. W. 8528
 Evans, H. C. 5123, 11903
 Evans, H. F. 10921
 Evans, H. J. 844, 11865-11868
 Evans, I. M. 6775
 Evans, K. A. 8916
 Evans, K. T. 6487
 Evans, M. E. G. 2499
 Evans, M. H. 10896
 Evans, P. D. 2239, 3312, 3477, 6341, 6509, 9225, 10302
 Evans, R. K. 11108
 Evans, S. L. 5429
 Evans, T. A. 1607
 Evans, W. G. 1851
 Evanylo, G. K. 4887
 Eveleigh, E. S. 7144
 Evenhuis, N. L. 3219
 Evershed, R. P. 1107
 Everts, J. W. 6526, 7271
 Experientia 7740
 Extension Bulletin - Cooperative Extension, College of Agriculture & Home Economics, Washington State University 2709, 5698
 Eyndhoven, G. L. van 11517
 Eyre, M. D. 4694, 5682, 9314, 10351
 Ezike, C. I. 6022
 Ezulike, T. O. 6932
 Ezzughayyar, A. 10499
 Faatz, F. 10559
 Fabiani, A. E. 5815
 Fabozzi, R. 8850
 Fabre, J. P. 5007, 6005
 Fabres, G. 2100, 5851-5852
 Fabriás, G. 2219, 11308
 Fabrids, G. 2211
 Fadeev, A. V. 1803
 Fadeev, Yu. N. 985, 7281
 Fage, J. P. la 4552, 8961, 10974
 Fain, A. 3228, 11479
 Fairhurst, C. P. 11949
 Faizi, S. 1985
 Fajer, E. D. 338, 11376
 Falco, J. V. 4791
 Faleiro, J. R. 11570
 Fales, H. M. 2315, 3296, 6304
 Falk, B. W. 3678, 10550
 Fallek, C. 488
 Falomo, A. 7488
 Faluyi, J. O. 2405
 Fam, E. Z. 1917
 Fan, F. 10373
 Fan, G. H. 9875
 Fan, H. H. 3591
 Fan, M. Z. 1870
 Fan, Q. 4113
 Fan, X. D. 3163
 Fan, X. H. 3085
 Fan, X. L. 5183
 Fan, Y. 9509
 Fan, Y. D. 6729
 Fan, Y. L. 5116
 Fan, Z. Y. 1254
 Fancsi, T. 11128
 Fang, A. 11063
 Fang, G. M. 3690
 Fang, W. C. 2974
 Fang, Y. 9476
 Fank, Z. D. 10787
 Fankhänel, H. 7904
 Fannin, F. F. 7676
 Fanti, P. 254
 FAO Plant Protection Bulletin 490, 578
 Farag, A. A. 3147-3148
 Farag, A. I. 1662
 Farage-Elawar, M. 8190
 Farah, E. E. M. 10723
 Farah, S. M. 6965
 Farber, T. 8174
 Fargo, W. S. 1977, 5098, 10781, 11702
 Farham, A. 363
 Faria, A. M. 4776
 Faria, J. T. 4802
 Farias, J. C. 11713
 Farmer, G. R. 7479
 Farmer, J. L. 3278
 Farnham, A. W. 11146-11147, 11239, 11964-11966
 Farnham, D. S. 8571, 11626
 Farooq, M. 1794
 Farr, D. V. 7458
 Farr, K. R. 9465
 Farran, A. 9349
 Farrar, C. A. 11708
 Farrar, J. A. 960
 Farrar, J. J. 9546
 Farrar, R. R., Jr. 9215
 Farrell, J. A. 1398, 10551, 10553, 10581
 Farrow, R. A. 1157, 2321
 Faruqi, S. A. 3328, 3739, 5611, 7659
 Fasih, M. 4799, 4801, 11678
 Fast, P. 8030
 Fast, P. G. 3037
 Fateeva, M. V. 8908
 Fateh, J. 7786
 Fatland, C. L. 2282
 Fattah, F. A. 1723
 Fat'yanova, A. D. 4210
 Faucon, J. P. 6528
 Faulds, W. 5959
 Faulkner, D. K. 10362
 Faulkner, P. 11103
 Faull, J. L. 8052
 Faust, J. B. 10137
 Faust, R. M. 1938
 Favila, M. E. 9615
 Favinger, J. J. 8193
 Favret, M. E. 4103
 Fawcett, P. K. S. 5941
 Fay, P. K. 5553
 Fayad, Y. H. 5447
 Faye, L. 7374
 Fazli, M. A. 8372
 Fazolin, M. 8815
 Febvay, G. 3491
 Feder, J. L. 1538, 4751, 5734
 Federici, B. A. 11936
 Fédère, G. 6490, 11411, 11933
 Fedorenko, E. I. 10823
 Fedorenko, V. P. 675, 4871
 Fedorova, M. V. 5374
 Fedosov, S. A. 485, 2324, 3393
 Fee, C. G. 1747, 7713
 Feely, W. F. 11196
 Feener, D. H., Jr. 6371
 Feeny, P. 6421
 Feeny, P. P. 3829
 Fei, D. B. 2462
 Feichtinger, V. E. 7040
 Feir, D. J. 6320
 Fekhtel, K. G. 2863
 Feldman, R. M. 11844
 Felisberti, F. 10300
 Felkl, G. 8495
 Feller, C. 1401
 Fellers, J. H. 7047
 Fellman, J. K. 1901
 Fels, A. El A. El 4999
 Felsot, A. S. 3201, 6162, 9099
 Felton, G. W. 6945, 8758, 9847
 Feltwell, J. 2356, 3012
 Fendick, E. A. 10137
 Feneron, R. 10422
 Feng, C. 9098
 Feng, C. H. 2253

Feng, G. 11437
Feng, J. G. 535, 2731, 4740
Feng, M. G. 9523, 11905
Feng, X. L. 4555, 5348
Feng, Y. 5184
Feng, Z. 5128
Fenigstein, A. 10849
Fennah, R. G. 2155
Fenton, K. A. 4087
Fenwick, G. R. 4820
Ferber, K. P. 2706, 9656
Ferenczi, M. 9032, 11014
Ferenz, H. J. 7364, 9245
Fererres, A. 8465, 10542
Ferguson, C. M. 309, 466, 6755
Ferguson, L. 6045
Ferguson, W. 1583
Ferke, A. 4208
Ferkovich, S. M. 1301, 8375, 11456
Fermaud, M. 7716
Fernandes, G. W. 1880, 7902, 8912
Fernandes, G. W. A. 5021
Fernandes, J. B. 11425
Fernandes, J. M. 5151
Fernandes, O. A. 623, 9730
Fernandes, P. M. 10056
Fernandes, S. C. S. 4776
Fernandes, V. F. 1070
Fernandes de Oliveira, G. M. 1047
Fernandes Lopes, N. 1637-1638
Fernández, M. 9446, 9452, 9522, 9713, 10724, 11208
Fernandez, M. R. 4022, 5927
Fernandez, N. A. 11833
Fernández, S. 5860
Fernández-Badillo, A. 9563
Fernandez Haeger, J. 1172, 1400, 1588
Fernández Larios, P. 4613
Fernández-Sigler, A. 1359
Fernández Vidal, E. H. 1178
Fernando-Warnakulsuriya, G. J. P. 2279
Ferragut, F. 4354, 4569
Ferran, A. 5452
Ferrara, F. 9367, 11390
Ferrari, S. F. 1224
Ferraugut, F. 4295
Ferraz, E. C. A. 7258
Ferre, G. 7730
Ferre, J. 3047
Ferree, D. C. 1559, 10697
Ferreira, E. 4666
Ferreira, L. 4962
Ferreira Brasileiro, V. L. 4331
Ferrell, G. T. 10940-10941
Ferrell, J. 5198
Ferrentino, G. W. 5912
Ferrer, F. 9561
Ferrer, J. de 7429
Ferrer, J. R. 5532
Ferro, D. N. 4884, 5191, 6925-6927, 8264, 8745, 10117
Ferrufino, A. 1512
Fery, R. L. 11753
Fescemyer, H. W. 8232
Feshchin, D. M. 373
Feurer, G. 10681
Feyereisen, R. 9034
Ffrench-Constant, R. H. 695, 3171
Fibla, J. 9200
Fichter, B. L. 1271, 4025
Fida, P. 9036
Fielbrand, B. 2329
Field, L. M. 3171
Field, W. D. 4283
Fieldbrand, B. 3197
Fielding D. J. 11711
Fields, G. J. 9685
Fields, P. 2266
Fieldsen, J. K. 10766
Figueira, A. R. 3670
Figueiredo, S. M. 859
Figueroa, A. 392, 2463
Figueroa, W. G. 10067
Fikes, M. 4106
Fila, F. 6924
Fila, L. 8057
Filippov, N. A. 6117
Filippova, N. A. 12026
Fimiani, P. 3412
Finch, C. A. 114
Finch, S. 2785, 4808, 8675, 9761, 10819
Fink, F. T. 3973
Finke, M. D. 7468
Finner, H. 10377
Firko, M. J. 11119
Firstencel, H. 11917
Fischbach, K. F. 9230
Fischer, H. U. 563, 6777
Fischer, M. 4116-4117, 4125
Fischer, P. 6000
Fischer, S. 4879
Fischer-Colbrie, P. 2726, 2741, 3796, 5693, 6780, 9659
Fischhoff, D. A. 8763
Fisher, J. M. 11074
Fisher, J. R. 1451, 10588, 11546
Fisher, M. 3495
Fisher, M. H. 7183
Fisher, M. J. 9249
Fisher, P. A. 8629
Fishpool, L. D. C. 3140
Fisk, J. H. 5341, 8261
Fitt, G. P. 753, 2302, 9644, 11164
Fitz-Earle, M. 11412
Fitzgerald, T. D. 4742, 9318
Fitzgibbon, F. 11048
Fitzpatrick, S. 75
Flaherty, D. L. 726, 5712
Flamini, C. 6528
Flamm, R. O. 7028, 8898
Flanagan, G. J. 9491
Flanders, K. L. 8563, 11684
Flanders, S. E. 209
Flath, R. A. 3144, 9668
Flechtmann, C. H. W. 859, 1247, 6452, 7710
Fleeker, J. R. 3204
Fleischer, S. J. 1397, 5019
Fleischmann, T. 9095
Fleming, C. C. 307, 358
Fleming, D. A. 6034
Fleming, E. E. 11874
Fleming, R. 8115
Fleming, R. A. 5971, 7073
Fleming, W. J. 8110
Flenakoshi, M. 6090
Fletcher, B. S. 7340, 7342
Fletcher, D. J. C. 203, 9386
Fletcher, J. T. 7283
Fletcher, W. A. 9184
Flexner, J. L. 2746, 6819
Flick, G. 5716
Flifla, M. 3335
Flinn, P. W. 6772, 7083, 10033
Flint, H. M. 6980, 7867
Flipo, D. 3186
Flodström, S. 976
Florén, F. 4386
Flores, Z. M. 7616, 8504, 9580
Flower, L. S. 7445
Flowers, R. W. 6795
Flückiger, C. R. 5875
Foda, M. S. 5126, 10084
Fodor, A. 6212, 8738, 11130
Foehner, A. L. 3853
Foerster, L. A. 8831, 11720
Fogal, W. H. 5997, 7916, 7941-7942, 10007
Fogg, K. E. 2269
Fogleman, J. C. 344
Foissner, W. 2046
Fok, I. 8057
Foldi, I. 8206
Foldi-Hope, C. 9183
Foliart, G. R. de 7468
Foltz, J. L. 7238, 10010
Fonágy, A. 11330
Fong, C. H. 9037
Fonseca, M. 8502
Fontana, A. 8994
Fontana, F. 6379
Fontes, R. A. 3053
Food and Agriculture Organi-
zation 1023, 2091, 2123,
4441, 4603-4604, 4652,
6025, 6239, 7301, 10224-
10225
Foord, C. 7255
Foord, R. 7255
Footitt, R. G. 9346, 9925,
10962
Foran, J. A. 10154
Förare, J. 7569
Forbus, W. R., Jr. 7116
Force, D. C. 1287
Ford, D. J. G. 310
Ford, J. B. 8687
Ford, M. G. 3158
Ford, R. E. 11084
Ford, S. C. 1055
Forde, B. G. 3171
Forner, M. A. 8478
Forno, I. W. 4593, 10507
Forrer, H. R. 3651, 8062
Forrest, B. 1614
Forrest, T. G. 3448
Forrester, N. W. 7861
Forsberg, J. 7564
Forschler, B. T. 1853, 3984,
5003, 11940
Forse, E. 4250
Förster, B. 9085
Forster, P. I. 1766, 9503
Forsyth, C. S. 2026
Forsythe, H. Y. Jr. 8563
Fortelius, W. 9386
Forti, G. C. 6188
Fortin, C. 5203
Fosbrooke, I. H. M. 7413
Foschi, S. 7082, 9022
Foss, S. S. 11952
Foster, G. N. 9314
Foster, H. A. 11949
Foster, J. E. 1435, 2605, 3084,
7591-7592, 8465, 9537,
9539, 10542
Foster, R. E. 2789, 4633,
5650, 6858
Foster, R. N. 9627
Foster, S. P. 61, 7351, 9311
Fotaki, M. E. 4351
Fougeroux, A. 953, 10569
Fourcassie, V. 10420
Fourche, J. 9252
Fourie, P. F. 7746
Fournie, J. W. 11952
Fournier, B. 10390
Fournier, D. 4847, 11217
Fournier, M. 3186
Fouse, D. C. 7115
Fowler, B. 8128
Fowler, H. G. 1936, 2408,
2446, 2491, 3501, 4358,
4373, 4658, 8334, 9373,
10425
Fowler, K. 1153
Fowler, S. V. 11504
Fowles, A. P. 9969
Fox, J. L. 3092
Fox, J. W. 8870
Fox, L. R. 4006, 9771
Fox, M. E. 4213, 6206
Fraga, A. I. A. 5755, 8971,
10914
Fraga, Y. 8357-8358
Frampton, E. R. 6770
France, Centre Technique
Interprofessionnel des Fruits
et Légumes 10221
France, Institut National de la
Recherche Agronomique
4242
France, Laboratoire de Protec-
tion des Végétaux, Enita de
Bordeaux 8818-8820
Francis, P. H. 8014
Francisković, L. 3193
Francke, W. 1377, 4307, 8907,
10005, 10277, 10571
Franclemont, J. G. 11795
Franco-Gaona, A. 9327
François, J. 3306, 6286
Frank, C. J. 6004
Frank, C. L. 2999
Frank, G. R. 5130
Frank, J. H. 1519
Frank, R. 2945
Frank, W. A. 4617
Franke, C. 9083
Franke, S. 10571
Frankenhuyzen, K. van 3037,
5050, 8869, 9964
Franks, N. 2422, 11422
Franks, N. R. 9376, 10428
Franqui, R. A. 9595-9596
Franz, H. 9153
Franz, J. M. 1001
Franz, R. 11381
Franz, S. E. 11381
Franzmann, B. A. 1498
Fraser, J. 4435
Fraser, M. J. 117, 5111
Fraser, R. S. S. 8046
Frate, G. del 3096
Fraval, A. 10001
Fredenhagen, A. 3104
Fredrix, M. J. J. 6943
Freed, P. S. 7477
Freeman, B. E. 1386
Freeman, R. 11626
Freeman, R. J. 1663
Freer, J. B. S. 11133
Frei, R. W. 9130
Freidberg, A. 1174, 7274,
10241
Freier, B. 10749
Freire Carvalho, C. 8336
Freitag, R. 5287
Freitas, E. V. de 8515
Fremuth, J. 6477
French, J. B. 4906, 5169
French, N. 8537
Frenot, Y. 1187
Freriks, J. C. 3899
Frérot, B. 64, 1084, 3959,
7347
Fresneau, D. 9352, 10403,
10419, 10421
Freuler, J. 4879, 5774
Freytag, P. H. 7673, 9164,
11449, 11835
Frias, D. 4882
Frias, M. 4732
Fricke, P. W. 8954
Fridell, R. A. 51
Fridland-Wunder, G. 2691
Fried, J. 2226
Fried, P. M. 6699, 8062
Friedman, M. J. 11073
Friedman, S. 4366, 6315,
7464, 7933, 10283, 10957
Friesen, P. D. 11093
Friessleben, H. 679
Frigerio, F. 8994
Frighetto, N. 72, 6302
Frighetto, R. T. S. 72, 6302
Friis, E. 3142
Frings, B. 681, 683
Frisbie, R. E. 6975, 8778
Frisby, K. 3027
Frisch, K. von 6220
Friskie, L. M. 8884
Fristrom, D. 2209
Fristrom, J. W. 2209
Fritz, G. L. 7245
Fritz, R. S. 4982, 5915, 8919,
10430
Fritzschke, R. 8447, 10832,
11906
Froeschner, R. C. 9790, 10242
Frohlich, G. 4844
Frolov, A. N. 4655, 10605
Fromm, T. 1073
Frommer, L. 8487
Froneman, I. J. 6843
Fruit Science Reports 8582
Fry, J. D. 11756
Fry, J. M. 4237
Fu, C. J. 2907
Fu, L. J. 2033

- Fu, T. Q. 3653
 Fu, X. S. 3452
 Fu-Shun, Y. 2250
 Fuchs, S. 238, 1245, 6524
 Fuchs, T. W. 7866
 Fuester, R. W. 4016, 7530, 11815
 Fueyo, R. 5425
 Fuge, H. 1050
 Fuglestad, K. 7006
 Fugo, H. 9221, 10313
 Führer, E. 5979
 Fujii, H. 2274, 6879
 Fujii, K. 6048, 11270
 Fujii, T. 2290, 3356
 Fujikawa, K. 1201
 Fujimoto, H. 2202
 Fujimoto, I. 6481
 Fujimoto, M. S. 10269
 Fujimoto, Y. 1115, 3332, 4338
 Fujimura, T. 3388, 5362, 5668
 Fujioka, S. 3389, 3706
 Fujisaki, K. 5587
 Fujisaki, Y. 3728
 Fujita, Y. 940, 6156
 Fujiwahara, M. 11496
 Fujiwara, H. 3590
 Fukamachi, S. 10103
 Fukami, H. 2215, 2467, 2796, 5339
 Fukuda, M. 12005
 Fukuda, S. 3866
 Fukui, M. 8365
 Fukui, S. 10995
 Fukumoto, T. 2715, 10691
 Fukunaga, A. 6399
 Fukunishi, T. 9846
 Fukushima, M. 9094
 Fukuta, M. 7396
 Fukuto, T. R. 9076, 10180
 Fukuyama, K. 7931
 Fullard, J. H. 6274
 Fulloon, M. G. 825
 Fulton, J. P. 8006
 Funakoshi, M. 6605
 Funakoshi, T. 2202
 Funasaki, G. Y. 1971
 Funderburk, J. E. 2667, 6897, 7151, 9816, 11729
 Fundi, F. 2909
 Funes, P. G. 5549, 7506
 Funk, C. D. 11105
 Funk, C. J. 11913
 Furer, G. 4928
 Furgala, B. 7497
 Furk, C. 4874
 Furlan, L. 8483, 8729
 Furniss, M. M. 8841
 Furth, D. G. 6249
 Furuhashi, A. 6481
 Furuno, T. 9930
 Furusawa, M. 3590
 Furusawa, T. 6366
 Furuta, K. 1850, 7930-7931
 Fuse, H. 3703, 5670
 Futuyma, D. J. 11509
 Fuxa, J. R. 6084, 6697, 7582, 8977, 9807, 11086, 11919
 Fuzeau-Braesch, S. 3269
 Fuzesi, I. 11995
 Gabarra, R. 2309, 4507
 Gáborjányi, R. 4600, 10566
 Gabriel, R. 2031, 11201
 Gabriel, T. 5155
 Gabriel, W. 6914
 Gabrielson, D. A. 2127
 Gabrio, T. 2052
 Gack, C. 6992
 Gáde, G. 102, 9250, 9257, 10305
 Gadenne, C. 5277, 5293, 5311
 Gadewar, A. V. 7815
 Gado, A. 11746
 Gadoury, D. M. 1560
 Gadsden, H. 3890
 Gadzalo, Ya. M. 506-507
 Gaedike, R. 9146
 Gaertner, F. 1981
 Gaffar, S. A. 8372, 8578
 Gafurova, V. L. 3113
 Gage, S. H. 9786-9787
 Gagné, R. J. 3618, 4279, 4995, 6840, 10445
 Gagneja, M. R. 6736
 Gagnon, D. 8846
 Gahukar, R. T. 457, 1671, 3684, 3720, 9576
 Gaikwad, D. N. 2007
 Gair, R. 10190
 Gajkbhiye, V. T. 11766
 Gakahu, C. G. 8397
 Gakhar, S. K. 6367
 Galaini-Wright, S. 5137
 Galbreath, R. A. 5221
 Galceran, J. 11354
 Galeffi, C. 1411
 Galetzka, G. 2052
 Galewsky, S. 11335
 Galford, J. R. 11291
 Galgani, F. 9091
 Galileo, M. H. M. 1035
 Galione, A. 8244
 Gallardo, F. 11086
 Gallardo-Covas, F. 1750, 7885
 Galletti G., L. 7113
 Galli, A. 4050
 Galli, J. C. 744, 4866-4867
 Gallian, J. J. 5839
 Gallo, D. 8450
 Gallo, J. Y. le 10735
 Gallo, L. 2543-2544
 Gallois, D. 183
 Galloway, T. D. 1852, 5962, 6085, 7055, 8844, 8848
 Galoux, M. 592
 Galvão, M. M. 4954
 Gamaprasad, G. 5897
 Gambaro, P. I. 2735, 8622, 9665
 Game, A. Y. 9281
 Gameel, O. I. 6966
 Gameraova, O. G. 1809
 Gammon, D. W. 8083
 Gamulin, V. 1139
 Gan, K. D. 8991
 Gan, Y. Y. 5900
 Ganbalani, G. N. 9830
 Gandhi, J. R. 5289, 5338, 6055, 10774, 10956, 11351, 11368, 11520
 Gandhi, M. 5436
 Gandhi, M. R. 4549
 Gandhi, S. R. 11187
 Gandhi, S. S. 11871
 Gandy, J. 7199
 Ganev, J. 155
 Gang, Z. 5400
 Ganga, G. 2855
 Gange, A. 9990
 Gange, A. C. 6775, 6806, 10095, 10352, 10521
 Gangrade, G. A. 7370, 11568
 Gangwar, S. K. 2800, 3775, 3783, 8512, 10492
 Ganor, E. 3342
 Gansner, D. A. 9933
 Ganter, P. F. 10525
 Gantz, S. 1544
 Gao, D. 5165, 6597
 Gao, J. L. 6343
 Gao, M. C. 9592
 Gao, N. Z. 4494
 Gao, R. Y. 167
 Gao, W. Z. 3304
 Gao, Y. C. 5845
 Gao, Y. G. 9420
 Gao, Z. H. 10052
 Gao, Z. S. 9678
 Gara, R. I. 9981, 9998
 Garango, P. 6134
 Garbarczyk, H. 7048
 Garcha, H. S. 1721
 Garcia, A. T. E. 5105
 Garcia, A. V. 986
 Garcia, C. 4130, 8770
 Garcia, C. R. 1936
 Garcia, E. 9446
 Garcia, G. 9713
 Garcia, J. 7963
 Garcia, J. A. 10715
 Garcia, J. de J. da 1749
 Garcia, J. de J. da S. 1748
 Garcia, J. J. S. 4949
 Garcia, J. L. A. 428
 Garcia, L. R. 134
 Garcia, M. 349
 Garcia, M. A. M. 11471
 Garcia, R. G. 631
 Garcia-Barros, E. 1177, 4689
 Garcia-Bellido, A. 9273
 Garcia-C., J. M. 9961
 Garcia de la Vega, C. 1214
 Garcia-Herdugo, G. 9266
 Garcia-Mari, F. 4354, 4569
 Garcia Rodriguez, A. 986
 Garcia Rubial, A. 1462
 Garcia Sánchez, F. 7173
 Garcia-Scheible, I. 1102
 Garcia-Vázquez, E. 4143
 Gard, T. C. 8309
 Gardiner, R. B. 8973
 Gardiner, S. E. 472
 Gardner, A. 10378
 Gardner, D. 6426
 Gardner, D. R. 1106
 Gardner, J. A. 8199
 Gardner, S. M. 6470
 Gardner, W. A. 10069, 11940
 Gardonna, A. P. 2751
 Gare, B. N. 1499
 Garel, A. 1353
 Garg, A. K. 8088
 Garg, D. K. 2338
 Garg, K. L. 8164
 Garg, P. K. 617, 4207
 Garg, S. K. 3824
 Garg, V. K. 6194
 Gargani, E. 9921
 Garibaldi, A. 6149
 Garnaga, N. G. 2721
 Garnett, W. B. 6276
 Garnier-Sillam, E. 5512, 5914, 9460
 Garnsey, S. M. 5747
 Garonna, A. P. 11661
 Garrido, A. 4356, 5274, 8212
 Garsan, A. 9701
 Gartneryrket 3960
 Gary, N. E. 1268, 4475, 4528, 6769, 11454
 Garza, A. 10134
 Garza Garcia, R. 631
 Garzino, V. 3343
 Gasc, C. 10254
 Gashira, B. O. 500
 Gasol, V. 8239, 8872
 Gassen, D. N. 7259
 Gastélum Luque, R. 404
 Gaston, K. J. 6636
 Gaston, L. K. 4814
 Gatehouse, A. G. 9238
 Gatehouse, A. M. R. 3136, 4087, 9105, 9798, 11270
 Gates Clarke, J. G. 1038
 Gatewood, J. M. 3058
 Gathy, K. 11108
 Gatin, F. G. 10695
 Gatoria, G. S. 2831, 6884
 Gatta, C. della 10050
 Gaube, R. 3483
 Gaud, S. M. 9596
 Gaudichon, V. 4955, 10877
 Gaugler, R. 4129, 8026, 8755, 8997, 11908, 11930, 11943
 Gaugler, R. R. 878
 Gaul, S. O. 10701
 Gauld, I. 3215, 6568
 Gault, P. 1518
 Gaur, J. P. 10986
 Gautam, D. C. 1684
 Gautam, R. D. 2439, 7986, 11467
 Gauthier, M. J. 11217
 Gautier, M. 2088
 Gautreau, Z. M. 10146
 Gavaret, J. M. 3271
 Gavioli, F. 177
 Gavioli, L. A. 8771
 Gawehn, G. 8674
 Gay, C. 4258
 Gay, H. 8436
 Gaylor, M. J. 1397, 4478, 4520
 Gaynor, D. L. 469, 2689
 Gayubo, S. F. 4467, 5363, 7320, 11470
 Gazdzik, D. 3188
 Gaze, R. H. 7283
 Gazit, Y. 3063
 Ge, A. Z. 11094
 Ge, F. 4663
 Ge, Q. J. 7012
 Ge, X. C. 9478
 Gebhardt, F. 8936
 Gebre-Amlak, A. 407, 412, 6711
 Geddes, P. S. 3764, 8563
 Geels, F. P. 10758
 Geethadevi, R. G. 9676
 Gegechkori, A. M. 5075
 Gehrken, U. 40
 Geiger, H. 2151
 Geissler, K. 1445, 8447, 10579
 Geissler, P. H. 10125
 Gelbič, I. 4215, 5176-5177
 Gelernter, W. D. 4884-4885
 Gellissen, G. 3348
 Gelman, D. B. 92, 11337, 11339, 11341, 11970
 Gemert, W. M. J. B. van 4324
 Gencheva, E. 11403
 Geng, Y. 7153
 Gennadiev, V. G. 170
 Gennari, M. 9749
 Genty, P. 1540-1541, 1543
 Genuchten, M. T. van 10102
 Geoghegan, A. 1386
 George, A. P. 1595
 Georgiou, G. P. 7335
 Georgiev, G. P. 9277
 Georgiev, P. G. 9277
 Georgieva, E. K. 8310
 Georgieva, S. G. 9277
 Georgis, R. 5107, 5132, 8738
 Geptner, M. V. 4433
 Gerald, F. I. 3464, 3931, 6957
 Gerard, P. J. 8347, 8559
 Gerasimova, T. I. 9277
 Gerber, G. H. 9744
 Gerber, K. 11618
 Gerberg, E. J. 8171
 Gerding, M. 392, 2463, 6109
 Gergerich, R. C. 5103, 8006
 Gerhart, B. B. 7224
 Geri, C. 790, 9291, 9317
 Gerling, D. 2148, 3033, 6231, 9301
 Gerlinger, C. 11085
 Germain, E. 2093
 German, T. L. 3828
 German Federal Republic, Biologische Bundesanstalt für Land- und Forstwirtschaft in Berlin und Braunschweig 3995, 4054, 4159, 5182, 5716, 8070, 8188, 10092, 10101, 12004
 German Federal Republic, Deutsche Gesellschaft für Allgemeine und Angewandte Entomologie 3221
 Gerson, U. 1255
 Gessa, C. 3200
 Gesunde Pflanzen 1983
 Getzin, L. W. 6186
 Gewecke, M. 4328
 Geyer, H. 8044
 Geyer, R. 8044
 Ghabbour, S. I. 1165
 Ghadiri, V. 3650
 Ghaghirath, T. H. 1362
 Ghai, S. 2969, 3493, 3925
 Ghally, S. E. 1921, 11088
 Ghamizi, M. 278
 Ghana, Cocoa Research Institute 11273
 Ghanekar, A. M. 6901
 Ghani, M. U. 1487
 Gherasim, V. F. 2882, 3567
 Ghidui, G. M. 4883, 4903, 7839, 8497, 9568, 11539
 Ghiliani, V. 11282
 Ghittoni, N. E. 5207

Ghizdavu, I. 3640
Ghode, M. K. 3626, 3891
Ghorpade, K. 266
Ghorpade, S. A. 9814
Ghose, S. 7967, 7969
Ghosh, A. 1459
Ghosh, A. K. 10894
Ghosh, D. 1338, 4510, 11709
Ghosh, L. K. 1387, 1626, 3957
Ghosh, M. R. 6836, 10212
Ghosh, N. K. 6269
Ghosh, P. K. 2848, 3891
Ghosh, S. M. 10668
Ghosh, T. K. 5199, 8095
Ghule, B. D. 6748, 7667
Gianfagna, T. J. 724, 9848
Giangrande, A. 11353
Gianna, R. 8994
Giannakakis, A. M. 10304
Giannopolitis, C. N. 1381
Giannotti, E. 6753
Giavelli, G. 7485
Gibb, K. S. 8785, 11074
Gibb, T. J. 3607
Gibbons, B. H. 2262
Gibbons, I. R. 2262
Gibbons, J. 1469
Gibbs, A. J. 871
Gibbs, B. F. 6096
Gibbs, J. N. 5064
Giblin-Davis, R. M. 9911, 11618
Gibson, A. R. 4499
Gibson, G. A. P. 6255
Gibson, R. L. 8958
Gibson, R. W. 7816
Giebultowicz, J. M. 2261
Gielsbert, E. F. 8858
Gies, A. 1073
Giesel, J. T. 3286, 4305, 6442
Giez, W. 8545
Giger, W. 11223
Gigot, J. 6627
Gijssel, P. D. 10814
Gijswijt, M. J. 3561
Gil, H. K. 6157-6158
Gilberg, M. 5079
Gilbert, A. J. 11132
Gilbert, C. 1313
Gilbert, D. 7270
Gilbert, D. E. 10918
Gilbert, F. S. 10471
Gilbert, J. 11017
Gilbert, L. E. 2409
Gilbert, L. I. 33, 2197, 3281, 5335, 6359, 9247, 10311, 11327
Gilbert, M. P. 896
Gilbert, P. 10191
Gildow, F. E. 1428, 11916
Giles, R. G. F. 59
Gilgenberg-Hartung, A. 2597
Giliomee, J. H. 2417, 2630, 2940, 5627, 6716, 7561, 9573
Gilkeson, L. A. 10383
Gill, A. 4486, 4534
Gill, B. S. 7595
Gill, D. E. 3008, 7938
Gill, M. 3362
Gill, M. K. 4534
Gill, R. 1984
Gill, S. 8814
Gillard, D. 3447
Giller, P. S. 11495
Gillespie, A. M. 11142
Gillespie, A. T. 3105, 4967, 6072, 6113, 8987, 11100
Gillespie, D. R. 3863, 10776
Gillespie, R. G. 2121, 5458, 9412, 11819
Gillett, J. 9770
Gillett, J. D. 9491
Gilliam, M. 4132, 11946
Gillis, J. N. 3194
Gillman, M. P. 6637
Gillott, C. 1110, 3322, 4439, 5419, 9758, 9775, 11417
Gilmore, J. E. 11359
Gilreath, M. E. 2667, 3881, 7151
Gilstrap, F. E. 2612, 9432, 9558, 9566, 11551
Giménez-Abián, J. F. 7393
Giménez-Martín 7393
Gindina, G. M. 3125
Giordana, B. 5288, 5312, 6318
Giorgi, F. 2171, 2256, 9201-9202
Giovanni, G. de 8807
Girardie, J. 1121, 10390
Girault, A. A. 1332
Girault, J. P. 9248, 10308
Girgenti, P. 10037
Giri, M. 2623
Giri, M. K. 11449
Giridhar, K. 9676
Girija, M. 8097
Giroلامي, V. 5728
Girs, G. I. 4985
Gisi, U. 11193
Gist, C. S. 832
Giuge, L. 4790
Giuliantonio, R. di 2713
Giusti, F. 5541
Gjoh, H. G. 1188
Gladwell, R. T. 6152
Glancey, B. M. 3482, 6514
Glasbrenner, J. 1234
Glazer, I. 1764, 10070
Glazner, B. 1544
Gleadall, I. G. 2251
Glebov, A. I. 5607
Glen, D. M. 370-371, 8584, 9538
Glez, V. M. 703, 5850, 12025
Gliński, Z. 1238, 4464, 10281, 10432
Gloer, J. B. 4182
Glos, P. 8955-8956
Glossmann, H. 55
Glotfelty, D. 2053
Glotfelty, D. E. 2069, 5216, 6204, 10149
Glover, S. G. 11265
Glover, T. 7344
Glover, T. J. 66
Głowacka, B. 7066
Glushkova, S. A. 516, 11628
Glyphis, J. P. 7052
Gmach, T. 7079
Gobbett, K. 8457
Gobbi, N. 6525, 8334
Göbel, B. 3446
Gobitz, A. 2414, 3638
Göçmen, H. 1736
Godbee, J. F., Jr. 10930
Gödde, J. 6555
Godden, G. D. 10682
Godfray, H. C. J. 1310, 2497, 4484, 5464
Godfret, K. E. 4862
Godfrey, G. L. 7322
Godfrey, L. D. 11610
Godfrey-Sam-Aggrey, W. 1582
Godon, D. 7201
Godoy, F. 4771, 4798
Godoy, F. J. 5765, 9734
Godoy, J. R. de 7580
Godula, J. 6068
Godzińska, E. J. 4517
Goeden, R. D. 3635, 6647, 6655, 11503, 11511
Goedicke, H. J. 2060, 4201
Goel, M. R. 10133
Goel, R. K. 11537
Goel, S. C. 736, 4317, 8218, 8726, 10206, 11987
Goes, A. de 4796
Goettel, M. S. 3111, 10066
Goffau, L. J. W. de 4000
Goffreda, J. C. 2884, 7837
Goh, H. G. 1132, 1720
Goh, K. S. 11606, 11608
Goh, S. H. 1351, 2523, 8230
Goheen, A. C. 9118
Göhlich, H. 3446
Goian, M. 1893
Goicoechea, J. L. 8357-8358, 10253
Gokan, N. 5526, 9177
Gokhman, V. E. 2154
Gokkes, M. 7744, 7751
Gokte, N. 1968
Gol'berg, A. 1764
Gol'berg, A. M. 2691, 3909
Gold, C. S. 711, 4890, 5160, 7095, 11747
Gold, D. 11188
Gold, H. J. 4749
Gold, L. S. 7208
Gold, R. E. 8933, 11200
Goldburg, R. J. 340, 11513
Golding, D. W. 9259
Goldman, J. 5198
Goldoni, D. 6379
Goldschmidt, Z. 1088
Goldsmith, D. F. 9080
Goldsmith, P. A. 4101, 5113
Goldson, S. L. 1531, 6770, 9641, 10654
Gołębiewska, Z. 7109
Golino, D. A. 11901
Golob, P. 3055
Goltzené, F. 3334, 4322, 10303
Golubenko, N. N. 561
Golubiev, A. 11117
Gol'zberg, K. L. 2328
Gomá, J. 4613
Gomaa, E. A. A. 3207
Gomaa, M. N. 3208
Gomariz, G. 1824
Gombe, S. 7198
Gomez, S. A. 1656, 4860
Gómez de Aizpúrua, C. 1194, 8832
Gomot, L. 5535, 10497
Gomot, P. 5535, 10497
Goncharenko, E. G. 4727
Goncharova, R. I. 7384, 11957
Goncharuk, A. I. 905, 11409
Goncharuk, E. I. 2027
Gonda, E. 2315
Gong, G. J. 6213
Gong, P. Y. 2900, 5554
Gong, Z. X. 11563
Gonnella, E. 3724
Gonzaga Chiavegato, L. 569
Gonzales, C. I. 9702
Gonzales, M. O. 763
Gonzales Gonzales, A. 1579
Gonzales Pradas, E. 986
González, A. 4518, 5861, 9411
Gonzalez, D. 4506, 5712
González, F. R. 8984
Gonzalez, J. M., Jr. 896
González, M. 10880
González, M. J. 11208
González, R. H. 4716, 4732, 4769, 4780, 5231
González-Candelas, F. 11378
Gonzalez-Coloma, A. 6677, 9049
González D, G. 5861
González-Duarte, R. 9200
Gonzalez Funes, P. 5549, 7506
González Gaitán, M. A. F. 9273
González-Muñiz, W. 7885
González Ramos, N. 2777
Gooch, P. 5153
Goochee, C. F. 166
Goodenough, J. L. 1015, 2354, 2918, 4643
Gooding, G. V., Jr. 10873
Goodman, W. G. 4289, 6364
Goodwin, P. H. 1549
Goodyer, G. J. 8658
Gooijer, C. D. de 11090, 11107
Goonewardene, H. F. 1564, 4746
Goos, M. 7825
Goot, V. S. van der 6256
Gopakumar, B. 11522
Gopal, K. 9075
Gopalakrishna, C. V. S. S. V. 4943-4945, 5084
Gopalakrishnan, C. 1942, 10848
Gopalan, M. 2651, 2664, 3714, 6740, 7031
Gope, B. 5901, 5903
Gopinathan, K. P. 296, 11095
Gorb, V. M. 7715
Gorbatovskii, V. V. 173
Gorbenko, A. P. 7814
Gordaliza, M. 4417
Gordechuk, A. I. 173
Gordh, G. 1419, 1861, 3252, 10248
Gordienko, S. A. 5377
Gordnier, P. M. 1122
Gordon, A. J. 6658
Gordon, C. J. 4189
Gordon, D. M. 8286, 10397
Gordon, F. C. 5974, 11000
Gordon, I. C. 7387
Gordon, R. 7234-7235
Gordon, R. D. 1036, 8895, 10452
Gordon, S. C. 509, 3762
Gordón M., R. 5861
Gorgol, V. T. 1263
Gorley, R. A. 8867
Goroshko, N. D. 8730
Gorsuch, C. S. 6824, 10702
Gorta, M. 188
Goryshin, N. I. 2521
Gosálvez, J. 1214, 3734, 5349
Goss, S. 2422, 6437, 7487, 9352, 9382
Gossett, R. 967
Gösswald, K. 1008
Gosteli, M. 5352
Goswami, M. 3596
Goswami, M. C. 4557
Got, B. 3677
Goto, C. 1535, 3373, 3428, 3857, 3905, 7454
Gotoh, T. 9947, 11826
Gott, K. M. 1868
Gottlieb, J. 11784
Gottschalk, H. J. 9919
Gottwald, R. 10670, 10749, 11653
Gottwald, T. R. 1948, 7745
Götz, F. 8031
Götz, P. 5305
Goud, T. R. 11672
Gough, N. 6995
Gould, C. G. 6220
Gould, F. 1414, 1741
Gould, J. L. 6220
Gould, W. 3079
Gould, W. P. 8964
Gould, Y. S. 6692
Goulielmos, G. N. 1117
Gour, M. N. 3683
Gouranton, J. 3335
Gourbière, F. 7013, 11012
Gourdoux, L. 1121, 3276, 4301, 5293, 11301
Goussard, F. 790, 9291, 9317
Gouzaga Chiavegato, L. 4792
Gove, R. A. 5204
Govil, J. N. 8522, 8717
Govindan, R. 8400
Govindrarajulu, V. 6862
Govindwar, S. P. 6693
Gowan, T. D. 4330
Gowda, B. L. V. 10901
Gowda, J. 8723
Gowda, K. T. P. 10852
Goy, G. 10570, 10830
Goyal, S. N. 2836, 5828
Goyal, S. P. 4811
Goyer, R. A. 4017, 5049
Graaff, N. A. van der 4956, 5142
Graan, P. N. E. de 42
Grable, A. 7428
Graca, J. V. da 8005
Grace, J. K. 4077, 7536, 7940, 9363, 9465, 10484, 11044, 11488, 11950
Graf, E. 8957
Grafius, E. 11750
Grafton-Cardwell, E. E. 4935
Graham, A. 11257
Graham, D. Y. 3517

- Graham, K. J. 68, 70
 Graham, S. McG. 6305
 Graham-Bryce, I. J. 11215
 Gran, D. M. 4308
 Granados, R. R. 1957, 6076
 Grandi, G. 3323, 6352, 8994
 Granett, J. 4935, 8572-8573, 11162
 Granger, A. R. 4738
 Grant, A. J. 6312
 Grant, B. 6417
 Grant, G. G. 10007
 Grant, J. 6801
 Grant, R. H. 7414
 Grapes, M. 3344
 Grapov, A. F. 4217
 Grashoff, C. 12016
 Grasselly, D. 2072, 10752
 Grassi, J. 2380
 Gratton, K. A. F. 6342
 Gravena, S. 6753, 8770-8771, 9715, 9893
 Graves, J. B. 2914-2915, 5882, 6982, 8775, 8778, 10801, 10861
 Graves, R. C. 10756
 Gray, D. R. 5036
 Gray, L. E., Jr. 5198, 6192
 Gray, T. G. 9209
 Grayson, B. T. 2112
 Grayson, J. 7039, 8891
 Grazia, J. 11721
 Graziano, F. M. 7488
 Graziano, J. V. 133, 402, 631-632, 1458
 Greany, P. D. 1301, 8646
 Greathead, D. J. 145, 7156, 10089
 Greber, R. S. 1429
 Grechanii, G. V. 2336
 Gredt, M. 11206
 Greeff, A. I. 9883
 Greeff, M. S. 1726
 Green, A. St. J. 2010, 2798, 5783
 Green, B. 4333
 Green, B. M. 5130
 Green, C. J. 11436
 Green, E. I. 4093
 Green, I. R. 59
 Green, K. A. 2546, 6339
 Green, R. E. 8137
 Green, R. H. 6785, 10008
 Green, T. A. 6848, 7897
 Green, T. P. 2429
 Greenbaum, S. 6993
 Greenberg, S. 800
 Greenburg, R. M. 55
 Greene, G. M. 8608
 Greene, S. 2029
 Greenfield, M. D. 5008, 6677
 Greenhalgh, R. 873
 Greenland, D. J. 7928
 Greenslade, P. 5382
 Greenstone, M. H. 4501, 7355, 7532
 Greenwood, R. 3158
 Gregg, P. C. 2361
 Grégoire, J. C. 7960
 Gregor, D. J. 8128, 8140
 Gregor, F. 5963
 Gregori, E. 6820
 Gregori, L. 11387
 Gregoriis, E. de 8994
 Grégorio, R. de 4444, 5417
 Gregory, B., Jr. 6895
 Gregory, B. M., Jr. 6893, 8712
 Gregory, R. D. 7501
 Grehan, J. R. 4993, 5366
 Grender, M. C. 5019
 Grenier, S. 4480
 Gres', Yu. A. 3897
 Greve, L. 4393
 Greville, R. W. 9483
 Grewal, G. S. 1721, 6951-6952, 9860, 10853
 Grewal, J. S. 178, 9776
 Gribakin, F. G. 11260
 Grichanov, I. 12011
 Grichanov, I. Ya. 384, 3941
 Gries, G. 3007
 Grieshaber, M. K. 1069
 Griffin, C. T. 6087
 Griffiths, W. L. 965
 Griffith, R. 11618
 Griffiths, B. S. 1367
 Griffiths, D. A. 1264
 Griffiths, D. C. 996, 3090
 Griffond, B. 4566-4567
 Grigarick, A. A. 4672, 5652, 9593
 Griggs, M. H. 11929
 Grigorov, P. 11292
 Grigortsevich, L. N. 531
 Grigoryan, E. G. 3131
 Grijpma, P. 1520, 1520
 Grikenis, R. A. 2722
 Grilli, S. 4192, 6189
 Grillo Ravelo, H. 1699
 Grimal, A. 2477, 9387
 Grimstad, A. K. 7157
 Grinberg, Sh. M. 272, 908, 2929
 Gringorten, J. L. 11947
 Gris, G. 9386
 Grissell, E. E. 4969, 7074, 11800
 Grissom, R. E., Jr. 2930
 Griswold, C. E. 4025
 Gritzmacher, T. J. 7011
 Grobov, O. F. 1327
 Groden, E. 1315, 1708, 10828
 Grodnitskii, D. L. 2167
 Grodskii, V. A. 2721
 Groll, E. 9010
 Grombacher, A. W. 5617, 10604
 Gröner, H. 1996
 Groot, A. de 5223
 Groot, A. E. de 7794
 Groot, E. C. de 9772
 Groot, P. de 5987, 8115, 8853
 Grootaert, P. 3425
 Gropengiesser, A. 3049
 Groppe, K. 6643
 Gros, E. G. 10156, 11235
 Gross, A. 3445
 Gross, H. R. 410, 4361, 4856, 7608
 Gross, P. 8887-8888
 Grosse, W. R. 8661
 Grossman, J. 2106
 Grossniklaus-Bürgin, C. 11338
 Grout, T. G. 4779, 4787
 Grove, D. L. 11073
 Grover, I. S. 3182
 Grover, P. B. 9539
 Grover, P. B., Jr. 376, 9537
 Grover, R. 1993
 Groves, L. J. 7236
 Grubb, T. C. 10130
 Grubb, T. C., Jr. 1780
 Gruber, B. 2055
 Gruber, F. 4016
 Gruber, V. F. 11196
 Grue, C. E. 8126
 Gruenhagen, N. M. 10649
 Grugel, S. 7850
 Grünberg, M. 775
 Grundy, T. P. 2596
 Grüner, C. 5781
 Grunshaw, J. P. 6250
 Gruppe, A. 2126, 9694
 Gruzova, M. N. 6589
 Gryaznova, A. S. 384
 Gryuntal', S. Yu. 4537
 Gryuntal', S. Yu. 10994
 Gu, D. J. 5484, 8677
 Gu, D. X. 3693, 5486, 5656
 Gu, H. 5108, 9310, 10328-10329
 Gu, H. G. 3968
 Gu, J. F. 10042
 Gu, X. R. 5348
 Gu, Z. Y. 5401, 7622
 Guagliardo, S. 9307
 Guan, Z. H. 10072
 Guangzhong, G. 8834
 Guardia, R. Díaz de la 5426, 11326
 Guardigni, P. 8565, 9660
 Guarino, L. A. 9000
 Gubbaiah 3698
 Gückel, W. 9043
 Guda, C. D. 2944
 Guercio, G. del 9511
 Guerillon, J. 4121
 Guerra, A. A. 6955
 Guerrero, A. 8239, 8598, 8872
 Guerrero, J. M. 713, 9841
 Guerrero, M. A. 4876, 5690
 Guerrieri, E. 2750, 2760
 Guerrucci, M. A. 10502
 Guglielmetti, G. 6798
 Guha, R. S. 8123
 Guha, S. 11709
 Guichard, K. M. 231-232, 11459
 Guidi, A. 6130
 Guido, A. S. 2491
 Guignard, E. 4722, 5704, 5707-5708
 Guillaud, J. 4480
 Guillebeau, L. P. 2924, 8340
 Guillen, A. 2201, 3283
 Guillen, J. 8636, 9732
 Guillet, C. 1354, 9252
 Guiraud, G. 911
 Gujar, G. T. 7233
 Guldemon, J. A. 8562
 Gulewicz, K. 8747
 Gullan, P. J. 2138
 Gullaumin, D. 418
 Gummel', E. R. 4729
 Gummer, W. D. 8140
 Gumovskaya, G. N. 276
 Gumpf, D. J. 5747, 10585
 Gümüşyuy, I. 9295
 Gunasena, G. H. 5283, 9455
 Gunathilagaraj, K. 2846, 7621, 7626, 7631, 7974
 Gunawardena, N. E. 439
 Gunn, A. 9238
 Gunnarsson, S. G. S. 4446
 Gunne, H. 5308, 11105
 Guo, A. K. 2253
 Guo, C. 1870
 Guo, D. M. 1706
 Guo, J. R. 10787
 Guo, M. F. 2388
 Guo, M. Z. 5740
 Guo, P. L. 1873, 2973, 4108
 Guo, S. 11099
 Guo, X. L. 2732
 Guo, Y. H. 9145
 Guofa, C. 5487
 Guohan, W. 6063
 Guoqiang, L. 8834
 Guppy, J. C. 7882, 9636, 9642
 Gupta, A. 1478, 3856
 Gupta, A. K. 8050, 11537
 Gupta, B. M. 347, 7570, 10528-10529, 11524
 Gupta, B. P. 8574
 Gupta, G. P. 3933, 9880
 Gupta, G. S. D. 9075
 Gupta, H. C. 2854, 5099, 11032
 Gupta, H. C. L. 6947, 11736, 11762
 Gupta, J. P. 6469
 Gupta, K. C. 11058
 Gupta, K. K. 1154, 6469
 Gupta, K. P. 2042
 Gupta, M. 2531, 4158, 5438, 6529, 8431, 8514, 8659, 9817
 Gupta, M. P. 616, 2827, 7697, 11589
 Gupta, P. K. 5662, 5813
 Gupta, P. R. 4793, 7732, 9185
 Gupta, R. C. 4200
 Gupta, R. K. 11165
 Gupta, R. P. 7829
 Gupta, R. S. 5215
 Gupta, S. 241, 8008, 9880, 10051
 Gupta, S. K. 7203, 10126
 Gupta, S. L. 1651, 11555
 Gupta, S. P. 1478, 3712, 5641
 Gupta, V. 3496
 Gupta, V. K. 11139
 Gurau, P. 4572
 Gurdip Singh 1719, 1721, 6951-6952, 9860, 10853
 Gurra, P. 8276
 Gursharan Singh 5218, 9778
 Gurung, A. 6836
 Gururaj, K. 1494, 5615, 11586
 Gurusubramanian, G. 2574
 Gurvinderjit Singh 1719, 10853
 Guseva, O. G. 607
 Gushchin, B. E. 7834
 Gustafson, D. I. 3196
 Gustin, R. D. 8474, 9551, 11541
 Guthrie, M. 7268
 Guthrie, W. D. 2633, 2640, 5617, 5619-5620, 7605, 7607, 8500, 9556, 9569, 9571, 10604, 11547
 Gutierrez, A. 5637-5638
 Gutierrez, A. P. 6934, 9640, 9839-9840
 Gutierrez, J. 2958, 4593, 11596
 Gutowski, J. M. 10890
 Guttman, S. I. 5955, 5957
 Gutzeit, H. 10160
 Guy, J. 1104
 Guy, P. L. 11945
 Guy, R. G. 8250
 Guymard, O. 4892
 Guzmán, J. 7722
 Gvili, A. 11783
 Gwynn, G. R. 758
 Gyawali, B. K. 1657, 3883, 3904
 Györfy-Molnár, J. 11625
 Györfi, L. 5181, 9032
 György, T. K. 6349
 Gyoutoku, Y. 221, 9936
 Gyulai, P. 10002
 Haack, R. A. 3973, 8854, 11790
 Haag, T. 7343
 Haagen, M. M. van der 6303
 Habeck, D. 4804
 Habeck, D. H. 3976, 4794, 5556, 9492, 11800
 Habeebullah, B. 9757
 Haber, S. B. 8106
 Haberkorn, A. 8023
 Habersaat, U. 4531
 Habfeld, G. 4325
 Habib, A. 571
 Habibian, A. 6112
 Hablitzel, U. 2055
 Habu, A. 5444
 Hachiya, K. 2654, 3564-3566, 7796, 7800
 Hächler, M. 4167
 Hackett, B. 10859
 Hackstein, J. 9278
 Hadar, D. 4775
 Hadas, S. 10495
 Haddad, M. de L. 5869
 Haddad, M. L. 6486
 Haddon, W. F. 9040
 Haddrell, R. L. 3062
 Hadjidemetriou, D. G. 5085
 Hadley, N. F. 1128
 Haeger, J. F. 1172, 1400, 1588, 5573
 Haemig, P. D. 7486
 Haes, E. C. M. 7255, 9623
 Haeselbarth, E. 4632
 Hafer, J. 9245
 Hafez, S. M. 3621, 3912, 4048, 4067-4068
 Hagedoorn, J. 3966
 Hagedorn, H. H. 800
 Hagen, A. K. 10809
 Hagen, R. H. 200, 2425
 Hagio, T. 1503-1504
 Hagley, E. A. C. 8605, 9690
 Hagop, E. G. 1707
 Hagopian, K. 1067-1068
 Hagstrum, D. W. 4057-4058, 6041, 10031, 10033, 10035
 Hågvær, E. B. 5863

Haider, M. Z. 1930, 7123, 8012
Haider, S. S. 8100
Haila, Y. 3543, 4015, 8913
Haile, A. 10554
Hails, R. S. 11805
Hain, F. P. 1515, 9968, 11812
Haine, C. P. 5089
Haines, C. P. 4049
Hainsworth, F. R. 9300
Haire, M. E. 3325
Hairston, J. E. 1448
Haitlinger, R. 4533
Haitsuka, S. 9587
Hajek, A. E. 1220, 1839, 1946, 2873, 5136, 7150, 10080, 11929
Hajela, K. P. 1630
Haji, F. N. P. 4899, 4901, 6942, 9784
Hajika, M. 8365
Hajjar, M. J. 8687
Håkan, S. 286
Hakim, S. S. Y. 11935
Hakim, S. Y. 3450
Halarnkar, P. P. 1072
Halbert, S. E. 9552
Haldar, D. P. 7969, 8022
Hale, J. R. 978
Hales, D. 1129
Hales, D. F. 1074, 9316, 10637
Halfpapp, K. H. 7645
Hall, D. G. 4609
Hall, D. R. 7988
Hall, E. A. 7182
Hall, F. R. 1559, 5725, 5910, 6184, 8085, 8489, 8556, 8564, 10697, 10891, 11079
Hall, J. W. 2881
Hall, L. M. 55
Hall, L. W., Jr. 8130
Hall, M. 1698
Hall, M. L. 6471
Hall, P. M. 10918
Hall, R. A. 3759
Hall, R. J. 10125
Hall, R. W. 7964, 9419
Hallahan, D. L. 3137
Hallam, A. 8147
Hallauer, A. R. 9569, 9571
Hallberg, E. 9182
Hallberg, G. R. 10142
Haller, T. B. 1062
Halliday, R. B. 6232
Halliday, W. R. 5090, 8925, 11895
Hallman, G. 3079
Halloran, G. M. 5684
Halme, E. 3543, 4015, 8913
Halperin, J. 1182, 1855, 4973
Halsema, L. van 9077-9078
Halstead, J. A. 4590
Halteman, W. A. 1790
Hama, H. 8670
Hamadoun, A. 10384
Hamana, K. 6350
Hamasaki, S. 620
Hamaya, T. 7907
Hamed, H. 4895
Hamed, M. 3059
Hamed, M. S. 5188, 11168, 11344
Hameed, S. F. 617, 709, 4766, 6163, 9887
Hamelin, C. 7149
Hamelin, M. H. 5272
Hamerski, M. R. 4280, 9419
Hames, C. A. C. 10266, 10376
Hamid, M. N. 11445
Hamilton, C. 6696
Hamilton, C. J. 10191
Hamilton, D. 4190
Hamilton, J. T. 10845
Hamilton, R. M. G. 3179
Hamilton, W. D. 10477
Hamilton, W. E. 8538
Hamm, J. J. 1015, 11941
Hamm, R. T. 9062
Hammett, K. R. W. 9109
Hammock, B. D. 94, 3324, 7232, 7339
Hammond, J. 10886
Hammond, P. C. 10318
Hammond, P. M. 2363, 5102, 5240
Hammond, R. B. 2841, 5817, 5821, 7851, 9801
Hammond, W. N. O. 6934, 6937, 11746
Hamon, C. 9181
Hampson, M. J. 2579
Hampton, J. G. 1514
Han, B. 3969
Han, E. D. 1720
Han, S. C. 9414, 9425
Han, S. S. 8223
Han, T. Q. 3969
Han, W. D. 46
Hanada, K. 9846
Hanada, T. 3428, 5563, 11059
Hanafi, A. 9833
Hanazato, T. 972-973
Hancock, D. L. 3231
Hancock, E. F. 7435
Hand, D. W. 2781
Hand, S. C. 3026, 8443
Handa, A. 6059
Handa, S. K. 671, 1649, 5807, 11712, 11727
Handel, S. N. 1399
Handler, A. M. 3340
Handley, M. 6305
Hänel, H. 3483
Hang, S. B. 3533
Hänggi, A. 5499
Hanhimäki, S. 10969
Häni, F. 7164, 7260
Hani, N. A. 4836
Hanif Gul 1794
Haniffa, M. A. 185, 6949
Haniotakis, G. E. 577
Hanlon, J. J. 5896, 10874
Hanna, W. W. 1496
Hanó, G. 8048
Hanozet, G. M. 5288, 5312, 6318
Hanqian, L. 8834
Hans, R. 11015
Hansen, H. 2351
Hansen, J. D. 7670, 11893
Hansen, L. O. 4392
Hansen, L. S. 622
Hansen, T. N. 783, 3444
Hanski, I. 4817, 9752
Hanson, F. E. 132, 8232
Hanson, P. E. 1402, 8866
Hanson, S. L. 9319, 11541
Hanson, W. R. 9327
Hanssen, O. 4391
Hansson, B. S. 89, 1662, 7351, 8231, 8540, 10277
Hanyu, K. 8216
Hanzal, R. 4098
Hanzlik, T. N. 3324, 7232
Hao, Z. C. 9397
Hapner, K. D. 2232
Happ, G. M. 95, 3320
Happe, M. 1612, 1640
Haque, A. 5847
Haque, R. 1152
Haque, S. 1152
Haque, S. Q. 11716
Hara, A. H. 780
Hara, T. 9236
Harada, A. Y. 5035
Harada, H. 1895
Haragsim, O. 1237
Harano, D. 165
Harbo, J. R. 7491
Harcharan, S. 6884
Harcharan Singh 1578
Harcourt, D. G. 6713, 9636, 10651
Hard, J. 1884
Hard, J. S. 7010
Hardie, J. 1054, 1160, 2204, 2323, 4371, 9308
Harding, J. A. 2923
Harding, R. B. 10044
Hardman, J. M. 2738, 4745, 10701
Hardy, A. R. 1039
Hare, J. D. 2768, 2820, 7819, 8649, 9710, 10728
Hare, J. F. 2427
Harein, P. K. 7108, 11029, 11880
Harel, M. 2220
Hargrave, B. T. 8128
Hargreaves, I. 6368
Hargrove, T. R. 8059
Hargrove, W. W. 832, 4165
Hari Singh 618
Haridass, E. T. 2478
Harikrishnan, R. 7657
Hariya, Y. 1285
Hariyama, T. 2251
Hariyapa, A. S. 8391
Harizanova, V. 6818
Harjapinder Singh 9769
Harkwalkar, M. R. 6376
Harley, K. L. S. 8418, 10519
Harman, A. L. 9959
Harman, D. M. 9959
Harmatha, J. 4219, 4599
Harmsen, R. 4750, 4753
Haro, A. 2201, 3283
Haro, A. M. de 5946
Haron, H. 5147
Harper, A. M. 1221, 2683
Harper, C. R. 7447
Harper, D. M. 10354
Harper, J. D. 4797, 9020
Harper, K. T. 3492
Harrewijn, P. 1610, 1682, 4233, 7278
Harrington, R. 695, 8266
Harris, C. M. 11052
Harris, C. R. 3190
Harris, E. G. 7445
Harris, E. J. 3951, 11777
Harris, J. L. 9543
Harris, J. W. E. 10934
Harris, K. F. 876, 7604, 12019
Harris, K. M. 5143, 5239
Harris, M. K. 4725
Harris, M. O. 7588, 10589
Harris, M. P. G. 6106
Harrison, B. D. 11062
Harrison, C. P. 5395
Harrison, J. 5431
Harrison, J. B. 3102
Harrison, J. F. 2235
Harrison, R. G. 6384
Harrison, S. 2366
Harrison, S. A. 10576
Harrison, T. J. 6487
Harrow, I. D. 6342
Harsas, W. 4194
Harshman, L. G. 94
Hart, E. 3035
Hart, E. R. 7450, 7962, 8902
Hart, W. 3079
Hart, W. G. 11891-11892
Hartana, I. 8789
Harte, E. M. 4428
Harten, A. van 907, 3133
Hartin, J. S. 8906
Hartley, C. W. S. 3213
Hartley, J. C. 6292, 9984
Hartley, S. E. 5931
Hartmann, T. 5286
Hartogh, R. L. los-den 2503
Hartsell, P. L. 8965, 11052
Hartstack, A. W. 2354, 5890
Hartstack, A. W., Jr. 3938
Hartwig, E. E. 7801
Hartwig, E. K. 8318
Hartzel, L. M. 3616
Haruki, T. 3707
Harverty, M. I. 4021, 6006
Harvey, A. W. 2307, 3140
Harvey, D. J. 2352
Harvey, J. M. 11052
Harvey, T. L. 7595
Harvey, W. R. 1070
Harvir Singh 5785, 11733-11734
Harvis, C. A. 3337
Harwalkar, M. R. 7971, 11025
Harwood, J. 7206
Hasaballa, Z. A. 2293-2294
Hasan, M. 4431, 5892, 7989, 8100, 8263
Hasanuddin, A. 9581-9582
Hasegawa, K. 5527
Hasegawa, M. 5457
Hasegawa, T. 7771
Häseli, A. 1598, 3894
Haseltine, S. D. 10125
Hashem, H. O. 1215
Hashem, M. 10723
Hashimoto, A. 882
Hashimoto, C. 9910
Hashimoto, H. 4162
Hashimoto, P. H. 8217
Hashimoto, S. 221, 9704, 9707
Hashimoto, Y. 1366, 3707, 5371, 5563
Hashmi, A. A. 2404, 5588
Hasibuan, R. 11731
Haskins, C. P. 2424
Haskins, E. F. 2424
Haslett, J. R. 6563
Hassadeh 5166
Hassan, A. A. 2835
Hassan, A. E. M. 4141, 7138
Hassan, G. H. 5455
Hassan, M. F. 324, 1291, 1344, 1521, 1697, 1731, 2562-2563, 3162
Hassan, S. A. 4157, 4736
Hassan, S. T. S. 9874
Hassanali, A. 10164
Hassani-Zadeh, M. 363
Hassell, M. P. 1310, 2497, 4086, 5481, 6405, 7035
Hassett, J. P. 8072
Hastings, A. 7972
Hastings, F. L. 7957
Hastings, J. M. 8333
Hasyim, A. 3617
Haszprunar, G. 9144
Hata, T. Y. 780
Hatalá-Zsellér, I. 9859, 11782
Hatchett, J. 6701
Hatchett, J. H. 3351-3352, 4279, 4618, 7595
Hatfield, J. L. 2917
Hatfield, L. D. 10854
Hatfield, P. R. 5129
Hatfill, S. J. 11918
Hatseras, C. 1066
Hatt, H. 9083
Hatton, T. T. 5101
Hattori, T. 5909
Haubruge, E. 11033
Hauck, M. 9089
Haucke, H. R. 3348
Haug, T. 9842
Haugen, J. S. 7006
Haukioja, E. 3986
Haunerland, N. H. 1125, 4315
Hausbergher, L. 11640
Hauschteck-Jungen, E. 5352
Hausdorf, H. 8557
Hausmann, S. M. 716, 5856
Häussler, D. 7932
Havens, J. E. 6224
Haverty, M. I. 1845, 2525, 4553, 5994, 6602, 8395, 9942
Havlíčková, H. 375
Havranek, D. 6648
Havrileck, B. 1240
Havukkala, I. 4877
Hawk, J. A. 11547
Hawkes, C. 109
Hawkeswood, T. J. 4007
Hawkins, B. A. 10445
Hawkins, C. P. 2332
Hawlitzki, N. 418
Hawlitzky, N. 4481, 5467
Haws, B. A. 3729
Haxaire, J. 4388
Haya, K. 8104
Hayakawa, H. 3373, 3428, 3857-3858, 3895, 3905, 7456-7457, 7804
Hayakawa, R. 7437
Hayakawa, Y. 10449

- Hayasaka, S. 7145
 Hayase, Y. 940
 Hayashi, D. 6301
 Hayashi, H. 5517, 9217
 Hayashi, M. 4395
 Hayashi, Y. 940, 6156, 9588
 Hayashikawa, S. 9707
 Hayashiya, K. 41
 Hayat, M. 240, 1302, 2459-2460, 3498-3499, 4784
 Hayes, A. J. 552
 Hayes, A. L. 7704
 Hayes, C. F. 4803, 8963
 Hayes, D. K. 6304, 10163
 Hayes, J. L. 6498, 6968, 8544, 9356, 11119
 Hayes, T. K. 5309, 5337
 Haynes, D. L. 1708
 Haynes, J. W. 944, 3170, 10324
 Haynes, K. E. 8709
 Haynes, K. F. 1077, 1161, 7348, 10640
 Haynes, R. F. 7415
 Hazarika, L. K. 5663
 Hazel, W. N. 11294
 Hazelton, S. R. 7318-7319
 Hazzard, R. 8264
 He, D. Y. 3620
 He, L. S. 4627
 He, S. L. 8503
 He, Y. 4869
 He, Y. H. 1334
 He, Y. Y. 738
 Headrick, D. 6647, 11503
 Heady, S. E. 11285
 Heale, J. B. 5138, 6072, 6083, 6694
 Healy, J. M. 3601
 Heath, J. 1003
 Heath, M. A. 6095
 Heath, R. C. 10144
 Heath, R. R. 548, 925, 2208, 2255, 2473, 2672, 5713, 8375, 8554, 9838, 10872, 11122, 11725
 Hebanowska, E. 4063
 Hebbalkar, D. S. 6428
 Hébert, C. 7054, 8840
 Hebling-Beraldo, M. J. 11425
 Hedden, R. L. 10931
 Hedger, G. A. 7719
 Hedin, P. A. 4926, 6542, 8772, 10599, 11170
 Hedrick, A. V. 10442
 Hedstrom, L. 6453
 Hedwig, B. 4443, 6297
 Hefetz, A. 3033, 5172
 Hefner, P. 8058
 Hegazy, M. E. 8092
 Hegazy, M. E. A. 3911, 4051
 Hegdal, P. L. 3194
 Hegde, R. K. 10496
 Hegde, S. N. 10659
 Hegedus, D. D. 879
 Heide, I. 7381
 Heidmann, T. 3142
 Heijbroek, W. 10815
 Heijerman, T. 7070, 8315
 Heiligenberg, H. 9227
 Heimbach, U. 277, 2038, 2623
 Hein, G. L. 7851
 Heinig, P. 80
 Heinis, L. J. 7227
 Heinlein, M. A. 11630
 Heinonen-Tanski, H. 9824
 Heinrich, B. 2205
 Heinrichs, E. A. 6741, 8513, 9594
 Heintz, W. 7763
 Heinz, K. M. 5912, 7893, 7900
 Heinz, W. 3785
 Heinze, J. 195, 2428
 Heinzpeter, E. W. 8981
 Heiss, E. 11283
 Heitefuss, R. 4224
 Heitz, J. R. 3222
 Hekal, A. M. 3644, 4066
 Hekimi, S. 1114
 Hekkel, K. 1537
 Hekster, Y. A. 8408-8409
 Helal, E. 10723
 Helbing, G. 111
 Helenius, J. 1440, 10577
 Heliövaara, K. 1784, 5056, 5922-5923, 5977, 7905, 7945, 9958, 10246, 10975
 Helland, I. S. 11840
 Helle, P. 1786
 Hellén, W. 7527
 Heller, B. 6274
 Heller, J. 9484
 Hellers, M. 5308
 Hellqvist, C. 10926
 Helm, H. U. 11787
 Helms, C. W. 6024
 Helmuth, R. 6180
 Helmy, E. I. 571
 Helsen, H. H. M. 11446
 Helson, B. 8115
 Helson, B. V. 8853
 Helversen, D. von 3317
 Hemida, S. K. 7124
 Heming, T. A. 966
 Hemmen, C. 8058
 Hemminga, M. A. 5572
 Hémon, G. 4892
 Henández, M. 9446
 Henaut, A. 8341
 Henderson, C. 1249
 Henderson, I. 1022
 Henderson, I. F. 305, 954, 1441, 6617, 8405
 Henderson, S. A. 1133, 1135
 Hendrichs, J. 4428, 9698
 Hendricks, D. E. 2918, 5626
 Hendricks, L. C. 523, 6801
 Hendriks, H. 6803
 Hendrix, W. H. 9357
 Henen, J. 1544
 Hengeveld, R. 6526
 Henneberry, T. J. 4936, 4938, 7764, 9290, 9635, 9881, 10862, 11500
 Henner, D. J. 4134
 Hennig, R. M. 6332
 Hennig, W. 4225, 9278
 Henning, G. A. 2943
 Henning, S. F. 2943
 Henny, C. J. 5204
 Henny, R. J. 9907
 Henriques-Gil, N. 5345
 Henry, A. 4400, 5811
 Henry, C. S. 3529
 Henry, J. E. 3466
 Henry, M. 2634
 Henry, T. J. 6468
 Henry G., A. 2346
 Henselová, M. 11136
 Hensler, K. 3308, 6340
 Henzell, R. F. 11597-11598
 Heo, C. H. 3747, 11538
 Heong, K. L. 4669, 5141, 5664, 5666, 6723, 7516, 7641, 7644, 7646, 10617, 11578
 Hepp, G. R. 8126
 Hepperly, P. R. 1492
 Heppner, J. B. 2340, 4002
 Heran, H. 2435
 Herbaugh, L. 4923
 Herbaut, C. 10735
 Herbers, J. M. 10398
 Herbert, D. A. 5824
 Herbert, E. W., Jr. 11078
 Herbert, G. B. 10130
 Herbert, R. H. 7346
 Hercules, D. M. 164
 Heritage, S. 10921
 Heritage, S. G. 1804
 Herman, R. A. 11399
 Herman, W. S. 1120, 1158
 Hermann, H. R. 10392
 Hermes, D. 8303
 Hermoso de Mendoza, A. 8639
 Herms, D. A. 8854, 10951
 Hernandez, A. 5636
 Hernández, D. 9561
 Hernández, I. R. 4561
 Hernández, L. 11208
 Hernández, M. 4825, 9712, 9714, 9724, 10463
 Hernández, M. D. 4644
 Hernández, R. 8239
 Hernández-López, E. 7885
 Hernández Méndez, J. 4176, 9033
 Hernández-Zúñiga, J. 9742
 Hernani, L. C. 1656
 Herpai, S. 9019
 Herrchen, M. 9062
 Herrebout, W. M. 10265
 Herren, H. R. 710, 6937, 9839-9840
 Herrera, A. 977
 Herrera, C. M. 9507, 11518
 Herrera, J. 2578, 4283, 4401
 Herrera, J. R. B. de 11246
 Herrera, L. A. 1579
 Herrick, O. W. 9933
 Herrington, P. J. 11133
 Herrnstadt, C. 5581
 Hertel, W. 9220
 Hertelendy, P. 8801
 Herzberg, A. M. 7200
 Herzmann, D. 10299
 Herzog, G. A. 758, 1015, 2923
 Herzog, Z. 4708-4709
 Hespeneheide, H. A. 10440
 Hess, R. T. 4101
 Hesse de Polanco, E. 4626
 Hessein, N. A. 3806-3807
 Het Ram 1497
 Hetru, C. 3333, 7343
 Heuer, H. 8907
 Heungens, A. 7007
 Heusden, M. C. van 2187
 Heuvel, J. F. J. M. van den 11067
 Hewitt, G. B. 4691, 11255
 Hewitt, G. M. 3360, 3734, 6510
 Hewitt, P. H. 5796, 6599, 6706, 6751, 8469, 11601
 Heydari, H. 148
 Heydari, M. 3650, 3694
 Heydens, W. F. 5197
 Heydon, S. L. 212
 Heyer, W. 4376, 4849-4850, 10790-10791
 Hibbard, B. E. 4650
 Hibino, H. 1460, 7616, 8504, 9580-9582, 10618, 10621-10622, 11564
 Hibino, Y. 2295, 5745
 Hickman, C. 3853
 Hickman, M. V. 9487
 Hidaka, H. 6140
 Hidaka, T. 450, 2815, 6879
 Hidalgo, J. 3724
 Hidalgo, L. 9721
 Hidalgo, L. J. 10462
 Hieke, F. 158, 7439, 10363
 Hietter, H. 4333, 10303
 Higashi, M. 10020
 Higashi, S. 2584, 5014, 11476
 Higashi, T. 7629
 Higashiura, Y. 1170, 1842
 Higbee, B. S. 9691
 Higgins, C. 10088
 Higgins, J. A. 1927
 Higgins, L. E. 4505
 Higgins, M. R. 200
 Higgins, R. A. 10650
 Higginson, F. R. 3190
 Highet, R. J. 2206
 Highley, E. 12034
 Hiji, N. 7030
 Hikichi, M. 1562
 Hilaire, C. 2092
 Hilbert, D. 3906
 Hilbert, D. W. 7327-7328
 Hilburn, D. J. 152-153, 4828, 6502, 7026, 10452
 Hild, D. N. 8933
 Hildalgo, L. 9453
 Hildebrand, D. F. 5814, 11731
 Hildebrand, J. G. 2246, 10289
 Hildebrand, R. 11721
 Hilder, V. 9798
 Hilder, V. A. 3136, 8704
 Hilker, M. 107, 1168, 4758
 Hill, A. C. 9044-9045
 Hill, B. D. 4419, 7598
 Hill, B. H. 7679
 Hill, C. J. 11514, 11809
 Hill, D. S. 11261
 Hill, H. S., Jr. 2526
 Hill, L. 1112
 Hill, R. J. 8954
 Hill, E. M. 8382
 Hill-Perkins, M. S. 8036
 Hilliker, A. J. 10314
 Hilton, N. J. 7183
 Hilton, R. J. 8762, 9851
 Himeno, M. 882
 Hina, B. 2826
 Hinckley, D. A. 9096
 Hindal, D. F. 10506
 Hines, J. E. 8126
 Hinks, C. F. 2610, 4440
 Hintz, J. L. 8342
 Hintze-Podufal, C. 2558, 5061
 Hintzpeter, U. 6555
 Hinz, B. 372, 641-642, 5808
 Hirai, K. 927, 5687
 Hirai, Y. 449, 9610
 Hiramoto, M. 1115, 4338
 Hirano, M. 6481-6482
 Hirao, J. 2661, 3663
 Hirao, T. 9213
 Hirashima, A. 2008, 8077, 10097
 Hirashima, Y. 1032, 1761, 6880, 7768-7773
 Hiremath, I. G. 5674
 Hirose, Y. 3539
 Hirscheimer, A. J. 9413
 Hirst, M. 6106
 Hirte, W. F. 775
 Hiruma, K. 5334
 Hiss, H. 11400
 Hitchin, B. W. 1927
 Hluchý, M. 6032
 Hmimina, M. 2309, 11752
 Ho, C. C. 2495
 Ho, F. M. 9462, 9767
 Ho, F. N. 9459
 Ho, K. Y. 5758
 Ho, N. K. 2661, 8505
 Ho, S. H. 10380
 Ho, Y. C. 11380, 11797
 Hoard, G. E. 7689
 Höbaus, E. 3765-3768, 6792-6794, 11001
 Hobbs, S. E. 6493
 Hobbs, S. K. 7977
 Hobza, R. F. 8643
 Hoch, H. 9645
 Hochmut, R. 6136, 8824
 Hochstenbach, R. 9278
 Hockett, E. A. 4619
 Hoda, F. M. 223-224, 654, 662, 2835
 Hodek, I. 4362, 5485, 9315
 Hodge, S. J. 1235
 Hodges, R. J. 7988
 Hodgkinson, I. D. 4390, 10240
 Hodková, M. 3269, 3272, 4362, 5329, 5331, 5485
 Hodsden, S. 9254
 Hoebeke, E. R. 335, 834, 11808
 Hoekstra, E. S. van Reenen-11903
 Hoese, B. 9265
 Hof, H. M. van't 2284-2285
 Hoff, J. M. 11840
 Hoffman, C. J. 9666
 Hoffman, J. 11869-11870
 Hoffman, M. T. 1789
 Hoffmann, A. A. 4128, 5722, 7408
 Hoffmann, J. 4333, 10303
 Hoffmann, J. A. 3333, 4322
 Hoffmann, J. H. 337, 1394
 Hoffmann, K. H. 91, 96, 2268
 Hoffmann, M. P. 3507, 8762, 9851
 Hofker, C. D. 11745
 Hofmann, A. 7381
 Hofmann, C. 4120

Hofmann, G. 10470
Hofmeyr, J. H. 4787
Hofsvang, T. 5863
Höfte, H. 899, 4120, 5114
Högerg, H. E. 63
Hogg, D. B. 1528, 9549, 9628
Hoggard, N. 4337, 9249, 11333
Hogmire, H. 8604
Hogmire, H. W. 10697
Hogue, C. L. 3296
Hohmann, C. L. 8335, 9680, 9827, 9868
Hohmann, M. L. 6585
Höhn, H. 5700-5702, 5705, 5720, 5851, 8616, 10660, 10708, 10712
Hoji, K. 8408-8409
Hokkanen, H. M. T. 5786, 6118, 9015, 9015
Hokkanen, M. T. 6099
Hokkanen, T. 7905
Holan, G. 8073
Holden-Dye, L. 2243
Holder, F. C. 3334
Holdom, D. G. 1463, 1479
Hölldobler, B. 2423, 8325, 10193
Holliday, N. J. 8737
Hollier, J. A. 7436
Hollinger, D. Y. 1783
Holloway, G. J. 6431, 9985
Holloway, J. 6155
Holloway, J. D. 8301
Holm, S. 6681
Holman, G. M. 5337, 8243
Holman, J. 3418
Holmes, P. R. 3180
Holmes, R. D. 3730
Holmes, R. E. 7913
Holmes, R. T. 4020
Holmes, S. B. 8131, 8133, 10906
Holopainen, J. K. 4877
Holsten, E. 1884
Holt, R. D. 7533
Holt, V. M. 8162
Holtkamp, R. H. 7698, 10653
Holtzer, T. O. 11453
Holtzman, G. I. 3459
Holý, A. 2297
Hołyński, R. 2139
Holz, F. 390, 9364
Hölzel, H. 230
Holzschuh, C. 3039
Homborg, U. 2246
Hommay, G. 315
Hommes, M. 11138
Honda, H. 5741, 8216, 9237, 10116, 11889
Honda, K. 7750, 7795
Honda, M. S. 8478, 8676
Honée, G. 1980
Honegger, H. W. 1102
Honěk, A. 5472
Hong, C. S. 9569, 9571
Hong, D. K. 7235
Hong, H. Z. 3086
Hong, K. H. 8618
Hong, K. W. 293-294
Hong, S. Y. 2655
Hong, X. Y. 5947-5948
Honma, K. 1059, 3858
Honowski, J. 9994
Hooker, K. L. 7449
Hooker, M. E. 5461, 6559
Hooli, M. A. 2257
Hooper, G. 4234-4235
Hooper, M. J. 10148
Hope, J. K. 11335
Hopkin, S. P. 4229, 10266, 10376
Hopkins, A. D. 7999
Hopkins, D. C. 2685
Hopkins, D. L. 11666
Hopkins, T. L. 1124, 2194, 2281, 3297
Höpli, H. U. 8616, 10708
Hopper, B. E. 5152
Hopper, K. R. 1970
Hoque, A. A. M. 3589
Horák, A. 3876, 7798
Horamoto, M. 3332
Horber, E. K. 1534, 7691-7692, 7696, 10040
Hori, K. 4173
Hori, T. M. 9910
Horide, F. 931, 933
Horiü, S. 3586
Horikiri, M. 10100
Horn, D. J. 4474, 5789, 10360
Horn, G. H. 9150
Horne, P. A. 2397, 10826
Hörner, E. L. 10816
Horner, M. B. 9109
Horng, S. B. 10358
Horodyski, F. M. 9256
Horsburgh, R. L. 3459, 3791
Horsnell, J. A. 6768
Horst, D. J. van der 1276, 2407, 3285
Horth, A. C. 10150
Horton, D. 8604
Horton, D. L. 8634, 10702
Horton, D. R. 3472, 7824, 8842, 9684, 9693, 9829
Horton, L. A. 6408
Horváth, A. 8047
Horváth, G. 812
Horváth, J. 5842, 10831
Horváth, Z. 8415
Horvth, Z. 4910
Hosein, M. H. 3068
Hoshikawa, K. 1059
Hoshino, K. 6173
Hosmer, T. A. 8605
Hosny, M. M. 3912
Hosoda, A. 7652
Hoss de Moraes, L. A. 1586
Hostachy, B. 3491
Hostettmann, K. 9047
Hosziafi, S. 11130
Hoszafti, S. 6212
Hota, J. 8321
Hou, K. W. 9932
Hou, R. F. 27, 4559, 5622, 7542, 9591, 11904
Hou, R. F. N. 6710
Hou, R. T. 5131
Hou, Y. 4113
Houck, K. A. 10137
Houck, L. G. 1912, 7117, 10721
Houck, M. A. 6587, 11430
Houndonougbo, B. 10122
Houpert, G. 12006
House, G. J. 2601, 7614, 8410, 9559
Houseman, J. G. 50
Houseweart, J. W. 9949
Houseweart, M. W. 7025
Houston, K. J. 3232
Houston, W. W. K. 12031
Houten, Y. M. van 1317
Houtven, A. van 899
Hovore, F. 3409
Hovore, F. T. 1869, 2372
Howard, C. 8869
Howard, D. J. 9284
Howard, F. W. 7943, 9911
Howard, J. 7363
Howard, J. J. 2429
Howard, M. 11154
Howard, P. H. 1564, 4746
Howard, R. W. 7083
Howard, T. R. 8068
Howden, H. F. 9332
Howell, C. R. 1018
Howell, F. J. 4163
Howell, J. F. 555, 9684
Howell, J. O. 4274
Hower, A. A. 6772
Howes, E. A. 11320
Howitt, C. J. 3062
Howlett, R. J. 6417
Howling, G. G. 952
Howse, G. 8869
Howse, G. M. 7954
Howse, S. 10199
Hoxie, R. P. 10331, 11535
Hoy, C. W. 7782, 8745
Hoy, M. A. 2510, 2693, 2719, 2762, 5398, 6801, 10090, 11634
Hoy, R. 6334
Hoy, R. R. 5319, 6298, 9305, 9313, 9417, 10290
Hoyer, H. 4016
Hoyt, S. C. 10688
Hrdý, I. 3876, 4453, 6136, 7798, 8824
Hrelia, P. 6188
Hribar, L. J. 9299
Hrubík, P. 837
Hruska, A. J. 4639
Hrutfiord, B. F. 9981
Hsia, M. T. S. 7196-7197, 7952
Hsiao, T. H. 6765
Hsieh, F. K. 4636, 10737
Hsieh, J. C. 8043
Hsu, C. 1998
Hsu, C. L. 7236
Hsu, H. T. 1461
Hsu, T. C. 4266
Hsu, Y. F. 2936
Hsu, Y. H. 11622
Hu, B. K. S. 11893
Hu, C. 5365
Hu, C. L. 9515
Hu, G. 1490
Hu, G. W. 1466, 6730, 7650
Hu, H. 5184
Hu, J. L. 3642-3643, 3978
Hu, J. S. 1443-1444
Hu, J. W. 4858
Hu, M. 11507
Hu, M. R. 4107
Hu, N. T. 4559
Hu, Q. 6861
Hu, S. H. 10892
Hu, Y. 1870, 4113
Hu, Z. 1490
Hua, Y. J. 4556
Huang, B. G. 4097
Huang, B. L. 3685
Huang, B. Z. 9767
Huang, F. S. 10177
Huang, G. X. 3591
Huang, H. C. 1221, 2683, 10647
Huang, J. F. 7937
Huang, J. L. 10350
Huang, J. T. 9476
Huang, K. Y. 4495
Huang, L. L. 7749
Huang, L. Q. 9480
Huang, L. W. 5336
Huang, M. D. 5905
Huang, P. K. 11662
Huang, P. Z. 738
Huang, R. R. 6057
Huang, S. N. 5183
Huang, W. F. 9206
Huang, X. P. 9812
Huang, Y. H. 9477
Huang, Y. J. 8435, 8679
Huang, Y. Q. 1290
Huang, Y. R. 9186
Hubbes, M. 7939
Huber, J. 2998
Huber, J. T. 208
Huber, R. 7544
Hudak, J. 7915
Huddleston, E. W. 4684, 11255
Huddleston, T. 6568
Hudon, M. 6713
Hudson, B. 3158
Hudson, W. G. 1519, 6499, 6761, 10079
Huebers, E. 114
Huebers, H. A. 114
Huertas Dionisio, M. 3971, 4281
Huesing, J. 757
Huettel, M. D. 915, 3667
Huffman, B. B. 6024
Huffman, R. L. 8138
Huflejt, T. 4038, 9994
Hugar, P. 11579
Huger, A. M. 1019, 1963
Huggert, L. 5491
Hughes, C. R. 6407
Hughes, F. L. 1449
Hughes, G. 924, 7453
Hughes, J. M. 5350, 5871
Hughes, M. A. 3741
Hughes, P. B. 2931
Hughes, P. R. 5109, 5133
Hughes, R. D. 10560
Hughes, R. N. 3385
Hui, C. C. 5531, 7396
Hui, R. 9517
Hui, Y. H. 9038
Huignard, J. 4074, 7111, 8004, 10797
Huijbregts, A. W. M. 10814
Huijbregts, J. 5265
Huis, A. van 4230
Hukam Singh 325
Hukuhara, T. 4146-4147
Hull, L. A. 3075, 3795, 6813, 6815, 8585, 8604, 8607-8608, 9686, 11641
Hull, R. 1703, 8160
Hulley, P. E. 2568, 3606
Hulme, M. A. 7072, 10934, 11811
Hulze, J. A. K. 12016
Humber, R. A. 1946, 5137, 6089, 6092, 11921, 11929
Humble, L. M. 10925
Hume, D. 1614
Hume, T. M. 6206
Hummon, M. R. 4319
Humphrey, J. A. C. 4370
Humphrey, S. J. 3392
Humphry, S. J. 10077
Hunag, Y. X. 6057
Hung, C. C. 1082, 4636, 10834
Hung, C. F. 5186, 8226, 11169
Hung, H. H. 7987
Hungate, F. P. 4744
Hunsberger, A. G. B. 6667
Hunt, C. 7365
Hunt, D. W. A. 5949, 8236, 8896, 10984
Hunt, G. L. T. 8741
Hunt, G. M. 7704
Hunt, L. 11108
Hunt, R. E. 6682, 7348, 8709
Hunt, W. F. 469
Hunter, D. M. 7420, 11415
Hunter, D. O. 1792
Hunter, M. D. 2985, 8883
Hunter, M. S. 3524
Hunter, P. E. 12, 1025, 6991
Hunter, W. A. 8542
Hunter, W. B. 2382, 3384, 8541
Hurd, L. E. 4519, 6545, 8351
Hurej, M. 7825
Hurkadli, H. K. 2257
Hurley, D. S. 7496
Husain, A. 6222
Husain, M. 1594, 6854
Husain, T. 6237
Husband, R. W. 4470, 5459
Husberg, G. B. 6099, 9536
Hussain, M. 863, 11994
Hussein, M. H. 3069
Hussein, M. Y. 7204, 9037
Hussein, N. M. 1730
Husseini, S. S. 4944
Hussien, F. A. A. 697-698
Hustert, R. 2240
Hutcheson, J. 9973
Hutchins, R. F. N. 11763
Hutchins, S. H. 5406, 7699
Hutchinson, S. 316
Hutchinson, W. D. 9290
Hutchison, W. 6971
Hutson, D. H. 11990
Hutton, J. M. 7202
Huxham, I. M. 4099
Huxley, P. A. 7928
Huybrechts, R. 3330
Hwang, J. S. 1082, 4636, 10737, 10834
Hwang, S. C. 8689

- Hwang, S. J. 293-294
 Hyatt, J. A. 1183
 Hyche, L. L. 5039
 Hyde, D. 2269
 Hyden, N. 5057
 Hyder, D. E. 10255
 Hyer, W. 634
 Hyser, R. A. 7497
 Hyun, J. S. 4670, 8589, 8881
 Hyung, C. C. 5801
 Hywel-Jones, N. L. 8987
 Iatrou, K. 4351
 Ibay, L. A. 1267, 4490
 Ibeas, D. N. 1087
 Ibero, C. 1177
 Ibrahim, A. A. 222, 1722, 5447
 Ibrahim, G. A. 223-224, 654, 662, 2835
 Ibrahim, S. M. 2293-2294
 Ibrahim, T. M. 825
 Ibrahim, Y. B. 6166
 Ibuchi, Y. 8018
 Ibuki, T. 3857, 3905
 Ichikawa, I. 9586
 Ichikawa, T. 9974
 Ichinari, M. 6156
 Ichinose, K. 1355
 Ichinose, R. 956
 Ichita, T. 3388, 7471
 Ide, A. 2202
 Ide, E. 41
 Idoine, K. 6925
 Iersel, J. J. A. van 2503
 Ierusalimov, E. N. 1832
 Iftner, D. C. 3631
 Igarashi, Y. 8909
 Igbino, I. B. 1542, 2035
 Iglesias, C. 7020
 Ignatov, V. V. 8119
 Ignatowicz, S. 3369, 3400, 4908, 8003, 8939-8940, 11312
 Ignoffo, C. M. 1952, 4122, 4130-4131, 4140
 Igrc, J. 6635
 Iheagwam, E. U. 6022, 7089
 Iida, M. 770, 7105
 Imori, T. 10161
 Inuma, A. 5858
 Iitomi, A. 7422
 Iiton, A. 3704
 Ikeda, R. 1488, 7619, 7629
 Ikehashi, H. 1488
 Ikekawa, N. 1115, 3332, 4338
 Ikemoto, H. 5330
 Ikezawa, H. 292, 882
 Ikonen, E. K. 10639
 Ilango, K. 8780
 Iles, M. J. 2589
 Ilharco, F. A. 9511
 Ilic, P. 726
 Il'ichev, A. L. 921, 3139, 3294
 Iliescu, E. 3195
 Ilovai, Z. 11782
 Ilyin, Y. V. 9277
 Im, D. J. 880-881, 5119, 10064
 Imai, H. T. 8260
 Imai, R. 12005
 Imai, T. 9106
 Imamura, K. 10538
 Imamura, T. 7199
 Imamura, Y. 1093, 7112
 Imberski, R. B. 97
 Imboden, H. 9461
 Immaraju, J. A. 5751, 8643, 11163, 11974
 Imokawa, H. 2180
 Imura, Y. 8346
 Inaba, D. J. 4419, 7598
 Inagaki, S. 119, 9241
 Inaizumi, M. 8308
 Inal, J. R. M. 7154
 Inamdar, S. A. 3239
 Inayatullah, C. 441, 1977, 8383
 India, Associated Agricultural Development Foundation 8186-8187
 India, Central Institute of Medicinal and Aromatic Plants 7293
 India, Central Plantation Crops Research Institute 11277
 India, Central Potato Research Institute 2115
 India, Coffee Board Research Department 7294
 India, Council of Scientific and Industrial Research 2075-2078
 India, ICAR Research Complex for North Eastern Hills Region 7290-7291
 India, National Research Centre for Spices 7296, 11276
 India, Regional Research Laboratory, Jammu-Kashmir 7288-7289
 Indrasith, L. S. 3282
 Industrie Alimentari 1891
 Ineu, S. 3859
 Ingle, S. 3079
 Ingle, S. J. 11891-11892
 Inglés, R. 3823
 Ingram, W. A. 11857, 11860
 Ingrisch, S. 4412, 9269
 Inlow, D. 165
 Innes, D. G. L. 817
 Inogamov, R. U. 741
 Inoue, B. 2021, 7215
 Inoue, H. 9469, 9843, 10061, 10103
 Inoue, K. 7022, 9672
 Inoue, M. 9748
 Inoue, T. 2764, 3331, 8802-8803, 8805, 9288
 Inouye, K. 8018
 Inouye, N. 9909
 Inouye, T. 5859
 Intari, S. E. 7910, 8816
 International Center for Agricultural Research in the Dry Areas 2117
 International Crops Research Institute for the Semi-Arid Tropics 5246, 8154, 10215
 International Organization for Biological Control 4157
 International Potato Center 6238, 8177
 International Programme on Chemical Safety 4247-4248, 7302-7303, 9137
 International Rice Research Institute 2107, 8185
 International Society for Horticultural Science 2110, 8173, 9124-9125
 International Union of Forestry Research Organizations 4242, 5984-5992, 5994-6011
 Ioan, M. I. 3771
 Ioannou, N. 2871, 10824
 Ioanitis, V. P. 2722
 Ionescu, C. 4408
 Ip, H. M. H. 11219
 Ipert, G. 4790
 Ipinza, J. 5425
 Ipinza-Regla, J. 10424
 Ippolito, R. 3406, 3816, 9746
 Iqbal Singh 1619
 Irish Republic, An Foras Talúntais 9138
 Irizarry, H. 1593
 Ironside, D. A. 1595
 Irshad, M. 3060, 11027, 11037
 Irulandi, V. 11461
 Irulappan, I. 6851
 Irvine, G. 1356
 Irvine, K. 7223
 Irving, S. N. 2204
 Irwin, J. 9109
 Irwin, M. E. 1421
 Isaac, J. E. 6694
 Isaac, R. E. 3279
 Isaacson, L. 3302
 Isabelle, P. 4642
 Isatkina, L. D. 10675
 Isakulova, D. I. 2857
 Isenhour, D. J. 6766, 8491-8492, 9554, 9565
 Isensee, B. 5716
 Isern-Vallverdú, J. 2535
 Ishaaya, I. 2763, 3063, 8781, 11159
 Ishay, J. S. 3342
 Ishchenko, R. I. 7240, 11311
 Ishibashi, F. 928, 949, 10538
 Ishibashi, N. 6071, 11068
 Ishida, S. 941, 3857, 3905, 10110
 Ishigaki, H. 3390
 Ishiguro, T. 940, 6156
 Ishihara, R. 4142
 Ishihara, T. 10691
 Ishii, T. 3748
 Ishikawa, A. 4081
 Ishikawa, H. 9217
 Ishikawa, Y. 5853, 5855
 Ishimoto, M. 6048, 7119
 Ishinohe, F. 3415
 Ishizaki, H. 7372, 8262
 Ishizu, S. 2022
 Ishmuratov, G. Yu. 6309
 Isidoro, N. 3315, 3715
 Islam, I. 11309
 Islam, S. B. 991
 Islam, W. 1675, 10025
 Islam, Z. 7647, 11562
 Islambekov, Sh. Yu. 2926
 Ismail, A. Y. 2326
 Ismail, S. M. 7377
 Ismail, S. M. M. 4184
 Ismailov, A. I. 2926
 Ismatlov, F. Yu. 514
 Ismatlov, V. Ya. 923
 Isman, M. B. 333, 4599, 5286, 6319, 8967, 9652-9653, 10536
 Ismukhambetov, Zh. D. 676
 Iso-Iivari, L. 3986
 Isogai, A. 7372, 8149
 Isono, M. 2953
 Israel Journal of Zoology 9129
 Issi, I. V. 8990
 Italy, Istituto Sperimentale per le Colture Industriali 10220
 Itami, J. K. 5918, 9935
 Itioka, T. 2764
 Ito, F. 2584, 11476
 Ito, I. 2022
 Ito, K. 2658
 Ito, M. 2870, 3389, 3595
 Ito, T. 6595
 Itô, Y. 9243
 Ivanov, E. V. 173
 Ivanov, S. G. 6763
 Ivanov, Yu. A. 1325, 1327
 Ivanova, O. V. 10763
 Ivanović, J. 2986
 Ivarsson, P. 2229
 Ivashkevich, O. P. 2166
 Ivashkin, S. A. 9068
 Ivchenko, A. E. 9046
 Ives, A. R. 2505, 7534, 10355
 Ivri, Y. 6993
 Iwabuchi, K. 2711
 Iwahana, H. 10075
 Iwashita, O. 2295, 5745
 Iwaizumi, R. 4081, 4162, 6133
 Iwakuma, T. 5217, 6202-6203
 Iwama, Y. 3709
 Iwami, M. 8262
 Iwamoto, E. 9534
 Iwamoto, H. 11318
 Iwamoto, S. I. 3595
 Iwan, D. 10820
 Iwan, J. 2056
 Iwanami, S. 1950, 5565
 Iwano, H. 4142
 Iwao, K. 3845
 Iwao, S. 5608, 8494, 10657
 Iwasa, M. 8196
 Iwasa, Y. 2808
 Iwata, M. 6832-6833
 Iwata, R. 6595, 9448, 10043
 Iwata, Y. 570
 Izhevskii, S. S. 549, 8764
 Izquierdo, Y. 2100, 6935, 10837
 Izquierdo, J. I. 136
 Izquierdo, M. 11354
 Izuhara, M. 3282
 Izumi, S. 2290, 3356, 9974
 Izumi, T. 11105
 Izushi, F. 2021, 7215
 Jabbo, N. F. 5483, 11357
 Jaccard, P. 5952
 Jackai, L. E. N. 652, 3879, 6886, 8703
 Jackman, J. A. 8778, 9570
 Jackson, A. 8229, 8426
 Jackson, A. O. 1396
 Jackson, B. D. 7474, 10408
 Jackson, C. A. 6757
 Jackson, C. G. 2448
 Jackson, D. M. 758, 4946
 Jackson, J. J. 7147, 11546
 Jackson, L. L. 68, 70, 1083, 5298
 Jackson, M. D. 11220
 Jackson, P. R. 10644
 Jackson, R. E. 10145
 Jackson, R. J. 8099
 Jacob, A. 9003
 Jacob, M. 2170, 10667
 Jacob, S. 11697
 Jacob, T. A. 570, 864, 6034
 Jacob Oliveira, L. 5623
 Jacobsen, N. 8090
 Jacobson, M. 5234
 Jactel, H. 8774
 Jadhav, D. B. 1280
 Jadhav, D. R. 11590
 Jadhav, G. 288, 6608, 11492
 Jadhav, G. D. 6948
 Jadhav, L. D. 1898
 Jadhav, R. B. 8392
 Jadhav, R. G. 5825
 Jadhav, S. S. 460, 1500-1502, 9605
 Jadwiszak, A. 4407
 Jadwiszczak, A. 3430
 Jaeger, B. 7439
 Jaeger, M. M. 3194
 Jaffe, H. 6304
 Jafri, H. A. 7934
 Jafri, S. A. H. R. 755, 5889
 Jagdev Singh 11773
 Jager, F. 7016
 Jager, J. de 5631
 Jagers Op Akkerhuis, G. A. J. M. 1694
 Jaglan, R. S. 854
 Jagtap, N. R. 11192
 Jahana, K. 5517
 Jain, A. K. 1634
 Jain, H. K. 10760, 11766
 Jain, P. C. 5577, 7571, 7842, 10527, 11761
 Jain, S. 4293, 10034
 Jairao, K. 8388
 Jaisson, P. 10422
 Jakab, J. 8568
 Jakaitis, B. 7065
 Jalaja, M. S. J. 9676
 Jalali, M. 8431
 Jalali, S. K. 2886, 4530, 5466, 7056, 8370, 8386, 10386
 Jalaluddin, M. 10458, 10666
 Jamaludin, S. 7884
 James, D. A. 5357
 James, D. G. 220, 1151, 2559, 8631-8632
 Jameson, M. L. 7950
 Jamieson, B. G. M. 3601
 Jamieson, P. 1962
 Jamil, K. 2160, 4072, 4580, 8424, 10027
 Jamjanya, T. 9608
 Jamwal, R. 1603
 Jan, J. 11958
 Janaiah, C. 2207
 Janáky, I. 2370
 Janardan Singh 320
 Janardhan, A. 5205
 Janarthanan, R. 746, 1475, 1477, 2645
 Jandl, J. 8407
 Janecsek, C. 3204

Janes, N. F. 11146-11147, 11239, 11960, 11964-11966
Janežič, F. 11814
Jang, E. B. 2213, 3077
Janick, J. 9121
Janiszewski, J. 4323
Janković-Hladni, M. 2986
Jannini, A. E. 8334
Jansen, J. 8667
Jansen, W. F. 1103, 4324
Janssens, S. 899, 4120, 5114
Jansky, S. H. 10822
Jansma, W. B. 7475
Janssen, A. 9673, 11745
Janssen, J. A. M. 4838
Janssens, L. 4491
Jansson, A. 4244
Jansson, R. K. 3852, 6667, 7827, 7833, 9838
Janzen, D. H. 7412
Japan, Entomological Institute, Hokkaido University 10200
Jaques, R. P. 9054
Jarhad, A. L. 7655
Jarjes, S. J. 848
Jarolím, V. 4453
Jarošík, V. 5862, 9456
Jarosz, J. 1238, 4425, 4464, 8319, 10281
Jarrell, W. M. 8649
Jarry, B. 11355
Jarske, W. 4796
Jarvis, B. J. 9758, 9775
Jarvis, J. L. 1456, 5619-5620, 11547
Jarvis, K. E. 8073
Jarvis, W. R. 8973
Jasińska, G. 3364
Jasiński, M. 3364, 4076
Jassim, H. K. 11949
Jasvir Singh 8218
Jaswant Singh 5654, 9598
Jat, D. R. 11718
Javahery, M. 7057
Javan-Moghaddam, H. 684
Javid, A. M. 2924
Jaworska, M. 4759
Jawroska, T. 7780
Jayachandran, I. C. R. 7888
Jayakar, S. D. 5351
Jayanth, K. P. 2701, 3625, 8317
Jayapal, S. P. 9648
Jayaprakas, C. A. 7084
Jayaraj, S. 849, 883, 2664, 3094, 4059, 4483, 4920, 6808, 7031, 7249, 8506, 9004-9009, 9649, 9898
Jayaramaiah, M. 289, 11498
Jayaraman, J. 1480, 4668
Jayaraman, P. 7567
Jayas, D. S. 6036
Jayasena, K. W. 6888
Jayashankar, M. 10659
Jayasinghe, L. 1412, 9499
Jayaswal, A. P. 5878, 7874
Jaynes, J. M. 11121
Jeanne, R. L. 6409
Jebakumar, S. R. D. 4668
Jefferson, E. 5424
Jeffery, D. 5323
Jeffords, M. R. 1834, 4009
Jeffries, L. 7898
Jégou, S. 3330
Jelinek, J. 143
Jeliński, M. 1324
Jemsi-Nobandegani, G. H. 363
Jena, M. 11566
Jenkins, A. C. 112, 9226
Jenkins, J. 4585, 11984
Jenkins, J. E. E. 10190
Jenkins, J. J. 4926
Jenkins, J. N. 1018, 4427, 5883, 7855, 11170
Jenkins, M. J. 3036, 6004
Jenner, D. W. 8151
Jenner, J. F. 7117
Jennings, D. L. 9120
Jennings, D. T. 7025-7026, 8845, 8905, 9949
Jennings, N. J. 10992
Jensen, D. A. 7227
Jensen, D. G. 5082
Jensen, M. P. 2916, 5974
Jensen, P. B. 3515, 6591
Jensen, R. H. 6484
Jensen, S. G. 6272, 6383, 8445
Jensen, T. S. 1882, 5976
Jenser, G. 6776, 8594, 11383
Jeon, M. J. 10434
Jeong, J. W. 6077
Jeong, K. S. 8295-8296
Jeong, S. E. 9197
Jepson, W. F. 8264
Jepson-Innes, K. 3730, 10642
Jerabek, J. 6791
Jervis, M. A. 9620
Jess, S. 306
Jessen, D. L. 7689
Jessup, A. J. 7114
Jesudasan, R. W. A. 2576, 6906, 10717
Jesudason, P. 2172, 2814
Jewess, P. J. 8150, 8152
Jeyarajan, R. 1482, 4088, 7853
Jhala, R. C. 1883, 5766
Ji, H. X. 789
Ji, S. G. 4819
Ji, Y. Q. 10871
Jia, X. F. 7735
Jia Lal 5919
Jian, H. 8983
Jiang, G. Z. 3262
Jiang, H. 3968
Jiang, H. H. 9424
Jiang, H. Z. 738
Jiang, J. R. 4110
Jiang, J. Y. 7623
Jiang, L. F. 3163
Jiang, M. H. 8991
Jiang, P. 5348
Jiang, R. 7153
Jiang, R. J. 1358
Jiang, Z. D. 9677
Jilani, G. 7981, 10032
Jilka, J. 11084
Jimenez, A. 1998
Jimenez, H. O. 2682, 10655
Jimenez, J. 11100
Jiménez, M. J. 726
Jiménez, R. 4468, 4791, 7505
Jimenez, S. 5548
Jiménez de Blas, O. 4176
Jin, B. R. 5119, 10064
Jin, C. R. 1938
Jin, D. D. 11563
Jin, H. N. 4627
Jin, L. F. 9421
Jin, L. Y. 10939
Jin, M. M. 7325
Jin, Y. D. 1474
Jin, Y. S. 7862
Jindra, M. 2234
Jinna, R. R. 11186
Jirásek, V. 8407
Jirón, L. F. 4479
Joachim, F. 7850
Jocteur-Monrozier, L. 1857
Jodal, I. 11792
Joginder Singh 9820, 9920
Johannes Toonders, T. 403
Johannsmeier, M. F. 2992
Johansen, H. 51
Johansen, R. M. 1037, 3970
Johansen, T. J. 4680
Johansson, B. E. 6060
John, A. 5868
John, G. M. 1405
John, V. T. 1476
Johnson, A. W. 758
Johnson, C. 3481, 4448, 11391
Johnson, C. D. 11270
Johnson, D. A. 7836
Johnson, D. C. 1199
Johnson, D. E. 9023, 11915
Johnson, D. L. 1221, 3479, 9064, 10094
Johnson, D. M. 11146-11147, 11239, 11964-11966
Johnson, D. T. 3761, 7352
Johnson, D. W. 4153
Johnson, J. A. 5081, 10444, 10721
Johnson, J. B. 8422, 8841, 9523, 11905
Johnson, J. W. 10564
Johnson, L. A. S. 2960
Johnson, M. K. 2025
Johnson, M. P. 656, 8707, 9638
Johnson, M. W. 3866, 4904, 6160
Johnson, N. F. 1332, 2445, 2447, 4280
Johnson, O. A. 2127
Johnson, P. 2229
Johnson, R. 5893
Johnson, R. C. 10635
Johnson, S. 11927
Johnson, S. A. 8617
Johnson, S. J. 4868, 6413, 9806, 10948, 11300, 11302
Johnson, V. A. 4618
Johnson, W. M. P. 8073
Johnson, W. T. 8167
Johnston, A. E. 1441
Johnston, D. 11994
Johnston, D. R. 2344
Johnston, K. A. 706
Johnston, L. M. 2344
Johnston, R. K. 2344
Johnstone, D. R. 7445
Joint FAO/IAEA Division of Nuclear Techniques in Food and Agriculture 10207
Jokela, E. J. 10044
Jokl, L. 3191
Jolevski, M. 1974
Joley, D. B. 1383
Jollands, P. 4950
Jolly, G. M. 5748
Jondhale, S. R. 1680
Jones, A. L. 5093
Jones, A. S. 7957
Jones, C. G. 718, 844, 5929-5930, 7956, 11865-11868
Jones, D. 757, 1319, 7502
Jones, D. A. 1529
Jones, D. B. 5650
Jones, G. 7373
Jones, J. A. 3962
Jones, J. E. 2925
Jones, J. S. 8282
Jones, J. W. 658, 1666, 8523, 9543
Jones, K. A. 78
Jones, M. T. 1701
Jones, O. T. 579, 8650
Jones, P. A. 309, 466
Jones, P. S. 4220
Jones, R. D. 4199
Jones, R. E. 4226
Jones, R. G. 7479
Jones, R. K. 10904
Jones, R. L. 410, 2438, 5470, 5613, 6441, 7525, 8146, 8864
Jones, R. W. 11769
Jones, S. C. 4548, 10480, 11491
Jones, S. R. 10412
Jones, T. H. 2315, 3296, 8675
Jones, T. L. 8305
Jones, V. P. 4733, 7893, 8626
Jones-Walters, L. M. 5477
Jong, E. J. De 11447
Jong, J. de 1751
Jong, M. de 4774, 8344
Jong, R. de 3314
Jönsson, B. G. 647-648
Jönsson, J. 3015
Joos, B. 4742, 9318
Joos, H. 6131, 8975
Joos, J. 8577
Jopia R., H. 2308
Jorda Gutiérrez, C. 8454
Jordan, F. L. 1099
Jordano, D. 1172, 1400, 1408, 1824, 5573
Jorgensen, C. D. 2413
Jorgensen, J. H. 7677
Jornada, R. 1175
Jose, A. I. 11272
Jose, V. T. 2836, 5877
Jensens, G. 6437, 9621
Joseph, C. A. 5658, 5661
Joseph, K. 32
Joseph, M. 6216
Joseph, T. 2043
Josephson, R. K. 6328
Joshi, B. G. 8788
Joshi, J. M. 7802
Joshi, N. C. 11129
Joshi, N. K. 2267, 6553
Joshi, R. 8574, 8652
Joshi, R. C. 450
Joshi, R. K. 6689
Joshi, S. 9274
Joshi, S. C. 10533
Joshi, U. N. 1497
Journal of Pesticide Science 10058
Joustra, K. D. 8144
Jouvenaz, D. P. 2416
Joy, P. J. 336, 6783
Joye, L. 284
Juan, C. 7394
Juárez, J. C. 9716
Juchault, P. 10085
Judal, G. S. 348, 1571, 8637
Judd, G. J. R. 2881, 9844
Judge, B. K. 10047
Judt, S. 5399
Jukes, A. A. 6205
Juliano, B. O. 7624
Juliano, S. A. 9622
Julien, M. H. 330, 6660
Jung, M. K. 10066
Junianto, Y. D. 8380
Junlie, L. 6063
Junqueira, A. de O. R. 11890
Junqueira, V. B. C. 9077-9078
Jurd, L. 7236
Jurenka, R. A. 2196
Jurgens, D. 4653
Jurik, M. 5125
Jurs, P. C. 9030
Justin, C. G. L. 9006
Justin, M. J. 3029
Jutsum, A. R. 6105
Jutzeler, D. 159-160, 9328
Jyothi, H. K. 6532
Jyothi, K. N. 2160, 4580
Jyoti, K. N. 4072
Kaashoek, N. K. 6549
Kaaya, G. P. 9471
Kabaria, B. 2836, 5828
Kabashima, J. 8914
Kabbouh, M. 3333
Kabissa, J. C. B. 750, 752, 2909
Kachare, B. V. 1914
Kachekhina, É. M. 943
Kaczmarek, J. 7049
Kaczmarek, S. 1775, 4822
Kadam, D. B. 1575
Kadamshoev, M. 8787
Kadenczki, L. 5181
Kadir, H. B. A. 6088
Kadu, N. R. 1163, 2759, 2773, 4786, 5189, 5224
Kadyrov, A. K. 11687
Kadyrov, A. Kh. 2948, 3042
Kaehne, I. D. 6768
Kaewprasit, C. 9751
Kafatos, F. C. 6610, 7395
Kafka, W. A. 4327
Kafu, A. 2390, 7388
Kagaine, I. O. 723
Kagan, Yu. S. 5195
Kagoshima, M. 10107
Kahn, D. M. 7036
Kahn, E. 8099
Kai, I. 221
Kaim, G. 8031
Kainoh, Y. 234, 9901
Kairon, M. S. 7859
Kaiser, L. 1275, 2488
Kaiser, W. 461
Kaiser, W. J. 10789
Kaisler, Z. 4881
Kaissling, K. E. 2223, 10280
Kajati, I. 1745

- Kaji, M. 7907
 Kajino, Y. 3657
 Kajita, H. 5456
 Kajjura, Z. 6609
 Kakar, K. L. 9852
 Kakinuma, K. 1115, 3332, 4338
 Kakizaki, M. 7820, 7895
 Kakoty, N. N. 5536
 Kalabina, K. A. 3660
 Kalaimani, S. 8720
 Kálalová, S. 7160
 Kalaris, T. M. 4437
 Kalashyan, Yu. A. 6702
 Kalavati, C. 5124
 Kale, P. N. 7828
 Kale, S. P. 10136
 Kale, V. D. 1724, 7844
 Kalia, S. 3991
 Kalinina, L. N. 3117, 11967
 Kalinová, B. 3455
 Kalisz, P. J. 8923
 Kallapur, V. L. 288, 6608, 11492
 Kallenborn, H. G. 11330
 Kallman, M. J. 2032
 Kalloo 1717, 2885
 Kalming, K. 461, 8271, 9228, 10298
 Kalmus, G. W. 4075
 Kalode, M. B. 176, 422, 6724, 7627
 Kalogianni, E. 2163
 Kalra, M. 5266
 Kalra, R. L. 11760
 Kalra, V. K. 1616, 8685, 8766, 11733-11734
 Kalve, V. 11870
 Kamali, K. 7088, 7607
 Kamaluddin, S. 2588, 2649
 Kamano, Y. 9901
 Kamau, J. M. Z. 2330
 Kambal, M. A. 5510-5511
 Kambhampati, S. 2451, 6566
 Kamenchenko, S. E. 2621
 Kamenek, L. K. 3112
 Kamijo, K. 2454
 Kamikado, T. 9836
 Kamimura, C. 10105
 Kaminski, J. 8967
 Kaminszky, M. E. 9864
 Kamm, J. A. 3740, 7416, 8529-8530
 Kammer, A. E. 2247
 Kamper, G. 3307
 Kan, E. 2679
 Kan, K. 770, 7105
 Kan, T. 6020
 Kanagaratnam, P. 3757
 Kanasar, S. 5900
 Kanaskie, A. 1776
 Kanaujia, K. R. 11550
 Kanaujia, S. 2224
 Kanazawa, J. 2004
 Kanda, K. 9610, 10063
 Kandalkar, H. G. 2757, 7752
 Kandasami, C. 9903
 Kandeel, M. M. H. 572-573, 4270
 Kandil, M. A. 3147-3148, 3911
 Kandoria, J. L. 1603, 2896, 6952
 Kandybin, N. V. 903, 10196
 Kaneda, C. 1488, 7619
 Kaneda, M. 3415
 Kanehira, O. 3372, 3657, 7821
 Kanehisa, D. 6848
 Kanehisa, K. 5295
 Kaneko, H. 8102
 Kaneko, J. 2811, 7455, 7680, 7894
 Kaneko, M. 6020
 Kaneko, N. 5928, 10016, 10995
 Kaneko, Y. 9779
 Kaneshiro, K. Y. 766, 3382
 Kang, C. S. 9264, 11347
 Kang, J. H. 11346
 Kang, S. H. 36
 Kang, S. K. 880-881, 5119, 10064
 Kang, X. W. 5771
 Kang, Z. X. 1856, 5740
 Kangane, J. B. 7760
 Kango, K. N. 5834
 Kanhaya 2595
 Kanhekar, L. J. 6560
 Kaniuczak, Z. 4629
 Kanmiya, K. 2313
 Kannaiyan, S. 6669
 Kannan, H. O. 8693
 Kannan, N. 4668, 9094
 Kannan, S. 6362
 Kanno, Y. 7437
 Kanost, M. R. 2185, 2288
 Kanta, U. 6496
 Kantam, M. L. 8081
 Kanthack, R. D. 10784
 Kanthi, S. 2237
 Kanzaki, R. 10289
 Kao, C. H. 5186, 8226
 Kapil, R. P. 1251
 Kapila, R. 6053-6054, 7999, 11884-11885
 Kaplan, F. 7274
 Kaplan, H. 1937, 8030
 Kaplin, V. G. 4398, 9324
 Kapoor, J. N. 8159
 Kapoor, V. C. 178, 2692, 2810, 6873, 9776
 Kappler, C. 3333
 Kapur, M. L. 3980
 Kapusta, G. 4699, 11137
 Kar, I. 6377
 Karaat, S. 9293
 Karaca, I. 9293
 Karalene, A. A. 6281
 Karalienė, A. 6281
 Karalliedde, L. 8111
 Karalyus, V. A. 7406
 Karamata, D. 6064
 Karamura, E. B. 769
 Karan Singh 62, 6038, 11375
 Karapetyan, D. G. 720
 Karas', A. Ya. 6517
 Karatysh, Yu. A. 6527
 Karban, R. 462, 2095, 3632, 4929, 5880
 Karchi, Z. 11707
 Kard, B. M. 4548
 Kard, B. M. R. 1515
 Kardar, M. A. H. 6237
 Kareddy, V. B. 5436
 Kareem, A. A. 7635, 9600
 Kareiva, P. 3614, 6564, 7535
 Karel, A. K. 11685
 Karelin, V. D. 6119
 Kares, E. A. 1722, 5447
 Karg, W. 2125, 4765, 5268, 10234-10235, 11113, 11286
 Karim, A. N. M. 5659
 Karim, A. N. M. R. 7640, 7984
 Karimian, Z. 434
 Karimullah 1744, 2928, 5605, 5753
 Karivaratharaju, T. V. 7996
 Karl, E. 673, 10579, 10869, 11123
 Karlen, D. L. 455
 Karlsson, B. 2307, 6650
 Karmawati, E. 10530-10531
 Karnavar, G. K. 11174
 Karns, J. S. 2005, 11183
 Károly, G. 9032, 11221
 Karowe, D. N. 2233, 6767, 10954
 Kärppä, P. 7129
 Karren, J. B. 8428
 Karsavuran, Y. 2891
 Karsholt, O. 8300
 Kartsev, V. M. 11366
 Karunakaran, V. 7154
 Karunaratne, V. 1412, 9499
 Karuppanan, U. 1336
 Karupuchamy, P. 717
 Kasang, G. 2224, 5304
 Kashio, T. 221, 1587, 9704
 Kashyap, N. P. 4766
 Kashyap, R. K. 1717, 3918
 Kaskens, J. W. M. 11447
 Kaskevich, L. M. 4212
 Kassai, T. 7179
 Kassel, L. 96
 Kassem, I. 10502
 Kassem, S. M. I. 1064, 10855-10858
 Kässmayer, Z. M. P. 5314
 Kassulke, R. C. 8418
 Kast, W. K. 10681
 Kaster, L. V. 9564, 11544
 Kaster, L. von 3375
 Kastirr, R. 5837, 8447
 Kastritsis, C. D. 7315, 7389
 Kasu, T. 6933
 Kasuga, H. 2259, 2263, 2536
 Kasuya, T. 6500
 Kas'yanov, A. I. 8511
 Kat, P. 6598
 Katagi, T. 932, 934, 988
 Katagiri, S. 10995
 Katajczak, E. 4037
 Katakura, H. 1385, 2553
 Katana, V. L. 3661
 Kataoka, H. 6355, 10306
 Katarey, A. K. 11887
 Kataria, H. R. 11193
 Katayama, J. 2829
 Katayama, S. 940
 Katayama, Y. 931
 Kater, S. B. 3216
 Kathirithamby, J. 4473, 9409
 Kathpal, T. S. 4671
 Katis, N. 7816
 Katiyar, K. N. 1378, 1862, 3933
 Katiyar, R. N. 643, 645, 2825
 Katiyar, R. R. 3503-3504
 Katō, M. 5569
 Kato, N. 2022
 Katō, S. 11807
 Kato, S. 941, 5565, 10110, 10116
 Kato, T. 10057
 Kato, Y. 9466
 Katoh, S. 620
 Katoh, T. 3711, 7637
 Katona, A. 11631
 Katou, M. 3098-3099
 Katovich, S. A. 11793
 Katsoyannos, B. I. 10508
 Katsuno, S. 2174
 Katz, D. A. 5921
 Katz, L. 3092
 Kätzel, M. 3040
 Kaub, H. 3799
 Kauffman, W. C. 727, 2883, 9853
 Kaufman, M. G. 9211
 Kaufmann, G. 11332
 Kaul, C. K. 7797, 7810, 11719
 Kaupp, W. 11096
 Kaupp, W. J. 4014, 7954, 8863
 Kaur, A. 7229
 Kaur, G. 9855
 Kaur, M. 3287
 Kaur, R. 2464
 Kaur, S. P. 6593
 Kaushal, B. R. 3991
 Kaushal, R. A. 2042
 Kaushik, C. P. 5211
 Kaushik, N. K. 6172
 Kaushik, S. K. 2852, 10812
 Kaushik, U. K. 11568
 Kaus, A. 6809
 Kavadia, V. S. 7840-7841, 7843, 8087, 11705, 11757-11758, 11972, 11982
 Kavaliers, M. 6618
 Kavanagh, M. W. 7362
 Kavanaugh, D. H. 4241
 Kawada, K. 5609, 7793
 Kawaguchi, Y. 2274
 Kawahara, S. 9843
 Kawai, N. 1285
 Kawai, Y. 7105
 Kawakami, A. 8262
 Kawakami, F. 4082-4083
 Kawamoto, H. 10026, 10062
 Kawamoto, K. 983, 4832
 Kawamura, M. 9843
 Kawarabata, T. 1955, 7145
 Kawaradani, M. 7176
 Kawasaki, H. 2537
 Kawase, S. 5530, 6069
 Kawashima, K. 5492, 7733
 Kawooya, J. K. 3339
 Kay, I. R. 5776
 Kaya, H. K. 4100, 4127, 7618, 11072, 11797, 11908, 11911, 11914, 11943-11944
 Kayapinar, A. 2626, 8496
 Kays, S. J. 707-708, 4888, 6930
 Kazak, C. 9293
 Kazano, H. 10104, 10157
 Kazino, Y. 3564, 5370-5371
 Ke, D. 7703
 Ke, L. D. 5782
 Keadtisuke, S. 9076
 Kearns, P. 7266
 Keaster, A. J. 3391, 4647, 8273, 8490, 9567
 Keates, S. E. 10915
 Keating, S. T. 7024, 8883
 Kedare, P. L. 5585
 Keddis, M. E. 2905
 Kedzie, K. M. 6058
 Keeble, V. B. 961
 Keeler, K. H. 7476
 Keeley, L. L. 10295
 Keena, M. A. 11162
 Keep, E. 9122
 Keer, R. de 4693
 Keerati-Kasikorn, M. 6019
 Kegel, B. 9444
 Kegel, F. R. 9546
 Kehat, M. 2783, 6434
 Keil, C. B. 2790, 2792
 Keil, T. 2224
 Keim, P. 6304
 Keinmeesuke, P. 6404
 Keith, J. O. 3194
 Keizer, A. 11861
 Kell, G. V. 7674
 Keller, E. 6111
 Keller, I. 6585
 Keller, J. E. 715, 719, 4896, 8754
 Keller, L. 201, 9383, 9385-9388, 9391, 11426
 Keller, S. 5164, 6111
 Kellner, M. 10987
 Kelly, D. C. 11937
 Kelly, J. R. 299
 Kelly, T. J. 97, 11339
 Kimmelmeier, C. 4183, 10165
 Kemp, N. J. 302, 318
 Kemp, W. P. 4437, 8283, 9614, 10346
 Kempe, T. G. 6304
 Kemppi, E. 7945
 Kendall, D. M. 8751
 Kendall, R. J. 4188
 Kendall, W. L. 4749
 Kenimer, A. L. 6191
 Kenmore, P. E. 10627
 Kennedy, G. G. 727, 2883, 7612, 9215, 9853, 10055, 11753
 Kenneth, R. G. 7143
 Kennett, C. E. 2756
 Kenny, G. J. 11696
 Kenny, P. T. M. 3104
 Kenya, International Centre of Insect Physiology and Ecology 5242-5243
 Kenya, Tea Research Foundation of Kenya 11274
 Kepner, R. L. 9627
 Keren, J. 405
 Kerényi-Nemestóthy, K. 8595, 11781
 Kerkhove, E. van 9377
 Kermarrec, A. 1922, 3491, 8027
 Kerns, D. L. 2609, 11582
 Kerr, H. D. 9567
 Kerr, J. D. 6640
 Kerra, H. M. 500
 Kerrieh, J. E. 5754

Kershaw, W. J. S. 706
Kersten, D. J. 5751
Kersting, U. 1618
Kerzhner, I. M. 4256, 4541, 6473-6474
Kerzhner, M. 3241
Kethley, J. B. 9143
Ketkar, C. M. 5580
Kettela, E. G. 3023, 8853
Kettunen, S. 4877
Keularts, J. L. W. 8759
Keuper, A. 127, 461
Kevan, D. K. M. 6537
Kevan, D. K. McE. 3247, 3528
Kevan, P. G. 7554
Key, K. H. L. 3468
Keymer, A. E. 7501
Keysor, A. 11869
Kfir, R. 1508, 2868, 3517
Khachatourians, G. G. 879, 4123, 4133, 8010
Khachatryan, A. G. 2306
Khader, M. A. 7625
Khadr, G. A. 3149
Khaemba, B. M. 9871
Khaire, V. A. 8688
Khaire, V. M. 1280, 1914, 5825, 7806
Khalaf, J. 3804
Khalefa, S. A. 1215
Khalequzzaman, M. 8263
Khalid, R. M. 6612
Khalil, M. F. 10150
Khalil, S. A. 7980
Khalilov, B. B. 1550
Khaliq, A. 10864
Khalique, F. 4089, 6050, 6052
Khambay, B. P. S. 11961
Khamidova, M. G. 3205
Khan, A. 11027
Khan, A. A. 4611, 7981
Khan, A. R. 3589, 4431, 5892, 7097, 7989, 8263
Khan, H. R. 5920
Khan, K. A. 2647
Khan, M. A. 991, 2595, 2647, 2817, 3210
Khan, M. I. 2847
Khan, N. A. 5588
Khan, S. M. 5769
Khan, T. 1816
Khan, T. N. 1816
Khan, Z. R. 4667, 5405, 6725, 10623, 11575, 11580
Khan M. Z. 1630
Khandal, R. K. 7175
Khandal, V. S. 3934
Khangura, J. S. 1578, 4717
Khanna, R. N. 9075
Khanna, S. C. 6169
Khanom, L. A. M. 1899
Khanvilkar, V. G. 7541, 10958
Khanzada, A. G. 755, 5889
Kharboua, M. 10501
Khare, B. P. 1674, 2850, 11882
Khare, M. P. 10024
Kharisov, R. Ya. 6309
Khassan, G. Kh. 5455
Khassanein, S. S. 2175
Khatoon, N. 8929
Khatoon, R. 3059
Khatri, T. C. 7443, 9340
Khatab, M. M. 4055
Khattak, S. K. 3059
Khattak, S. U. 555, 1915
Khattak, S. U. K. 4163, 9684
Khatter, S. K. 7175
Khatun, M. 7985
Khaw, C. H. 8505
Khechoyan, L. S. 2539
Khel'man, L. V. 1677
Kher, S. 6846
Khetan, S. K. 7175
Kheyri, M. 3896
Khillare, Y. K. 9072
Khimera, E. I. 2824
Khibsuwan, W. 6019
Khlitovskii, D. E. 170
Khodova, O. M. 1920
Khokhar, K. S. 672, 2889
Khokhordin, E. G. 3554
Khokhryakova, T. M. 10677
Kholmuminov, A. 2345
Khoo, J. 6814
Khorikov, O. S. 10572
Khorkhordin, E. G. 2512
Khovanskikh, A. E. 1060
Khrameeva, A. V. 2894
Khuchka, S. S. 567
Khuda-Bukhsh, A. R. 6377
Khudyakova, O. A. 6120
Khurana, A. D. 5677, 5764, 6874, 7664
Khurana, S. M. P. 5841
Khush, G. S. 1487, 6737, 9601, 10616
Kibata, G. N. 5146
Kiceniuk, J. W. 7212
Kida, S. 6480
Kidd, H. 7280
Kidd, N. A. C. 7452
Kido, K. 726
Kieckhefer, R. W. 2614, 4377, 8455
Kieffer, J. J. 5491
Kiefkewicz, M. 6856
Kien, J. 9184
Kieruzel, M. 3376
Kierych, E. 2140
Kiku, B. B. 172, 905
Kikuchi, M. 1357
Kilbourne, E. D. 6060
Kilen, T. C. 6891, 7801, 8714
Killick, H. J. 5964
Killion, E. E. 1270
Kilori, J. 6745
Kim, C. M. 11828
Kim, C. S. 36, 9196
Kim, C. W. 1030, 9196
Kim, D. H. 451
Kim, D. K. 1474
Kim, E. S. 9244
Kim, E. Y. 2189
Kim, H. G. 8501
Kim, H. H. 8881
Kim, H. R. 46, 103, 1053, 2189, 9244, 9263-9264, 11347
Kim, H. S. 1473, 3691
Kim, H. U. 10064
Kim, I. S. 1720, 8297, 9197
Kim, J. B. 1206, 4471, 7618, 8619
Kim, J. H. 29-30, 7334, 7427, 8112
Kim, J. I. 18, 2156, 6263, 8207, 9169
Kim, J. K. 8619
Kim, J. S. 29-30, 7334
Kim, J. W. 1132
Kim, K. M. 293-294
Kim, K. S. 3678
Kim, K. Y. 293-294, 8619
Kim, L. 1981
Kim, M. 8074
Kim, M. S. 10739
Kim, S. B. 8619
Kim, S. C. 5633
Kim, S. H. 9442
Kim, S. K. 9569, 9571
Kim, S. S. 9058-9059
Kim, S. Y. 856
Kim, T. H. 20
Kim, W. C. 8618
Kim, W. K. 22, 29-30, 36, 7325, 7334, 9196
Kim, Y. D. 295
Kim, Y. S. 8618, 10739
Kimani, S. W. 6552
Kimball, B. A. 7864
Kimmell, J. 7687
Kimmerer, T. W. 1769, 10990
Kimoto, S. 2134
Kimura, H. 3394, 3737
Kimura, I. 875
Kimura, M. T. 3371
Kimura, S. 3710, 5669
Kimura, T. 82, 3260, 3388, 5362, 5668, 7779
Kimura, Y. 5222
Kind, T. V. 3395
Kindervater, R. 9348
Kindle, H. 1119
Kindler, S. D. 3658, 4601, 5678, 6272, 6383, 8445
Kindlmann, P. 137, 9171
King, A. B. S. 3890, 10806
King, B. H. 10468
King, B. L. 2362
King, D. L. 7395
King, E. G. 1017, 1299, 3123, 3130
King, K. A. 9088
King, L. A. 8033, 11097
King, S. B. 7657
Kingsbury, P. 8115
Kingsbury, P. D. 11189-11190
Kingsolver, J. G. 19, 7410
Kingsolver, J. M. 3083, 3249, 3607
Kinkorová, J. 1382
Kinn, D. N. 5015
Kinsey, M. 11345
Kinzer, H. G. 11255
Kious, C. W. 480
Kipp, L. R. 2707, 6416
Kipyatkov, V. E. 2434, 3489
Kira, Y. 1385
Kiralý, Z. 5212
Kirby, R. 1449, 11918
Kirchhof, H. 2690
Kirchoff, K. 1640
Kirejtshuk, A. G. 11806
Kirgiz, T. 1184
Kirihaara, S. 2395
Kiril'chuk, P. P. 350
Kirillova, V. I. 3264
Kirino, T. 3737
Kiritani, K. 5643
Kiriya, I. G. 3661
Kirk, P. W. W. 982
Kirkeby-Thomsen, A. H. 7774
Kirkendall, L. R. 11848
Kirpal Singh 611, 7759
Kirsch, P. 8635
Kirsch, P. A. 8633
Kirsch-Volders, M. 10098
Kirsur, M. V. 7602
Kiselev, S. L. 9277
Kişgeci, J. 9124
Kish, L. P. 9523
Kishore, P. 458, 2663, 3721, 4656, 8522
Kishore, R. 1686, 3908
Kishun, R. 4800
Kisimoto, R. 2394, 5644
Kismali, S. 3151, 9493
Kiss, A. 8527, 8534
Kiss, E. 1745
Kiss, I. 6212, 7016, 11130
Kiss, J. 8311, 8461
Kissinger, D. G. 157
Kistner, D. H. 4450, 10485
Kita, H. 3104
Kita, K. 2811
Kitaev, V. S. 608
Kitajima, E. W. 9547
Kitajima, J. 687
Kitamura, C. 3386-3387, 7455, 7680, 7894
Kitamura, K. 436, 1491, 6048, 7119
Kitano, H. 6869
Kitauchi, Y. 10057
Kitching, W. 4307
Kitprasert, C. 6576, 9431, 10450
Kitten, W. F. 748, 8769, 8778
Kittiboonya, S. 2922
Kiuchi, M. 9468
Kivachitskaya, M. M. 4615
Kiwindou, A. 2100, 4891, 5852, 10837
Kiyota, Y. 9936
Kladivko, E. J. 8138
Klai, V. Ya- 450
Klechkovskii, Yu. È. 1439
Kleef, R. G. D. M. van 3187
Kleffner, L. 2582
Klein, B. 107
Klein, G. 6178
Klein, M. 1642, 1644, 11942
Klein, M. G. 5772
Klein, R. E. 10789
Klein, U. 4327
Klein, W. 9062
Klein, Z. 4974
Klein Hulze, J. A. 12016
Klein-Koch, C. 5160
Klein-Rollais, D. 5340
Kleindienst, H. U. 3273, 10297
Kleinhempel, H. 11906
Kleitz, M. O. 2006
Klen, T. 6494
Klenk, H. D. 8044
Klepikova, F. S. 1920
Klepzig, K. D. 10955
Kletter, E. 7860
Klicza, L. 2874
Klimaszewski, J. 3528, 10243
Klimenko, V. V. 7539, 11493
Klimetzek, D. 1377, 10005
Klimont, S. 10432
Klimpinya, A. E. 2335, 2516, 3220
Kline, W. L. 1450
Klingauf, F. 1413, 3760
Klingler, J. 5702
Klischowski, B. 7776
Klisenko, M. A. 5195, 7216
Klochko, R. T. 6527
Klochkov, S. G. 11489
Klocke, J. A. 3169, 5220, 7177
Kloen, H. 6863
Klopfenstein, P. C. 10756
Klowden, J. P. 3077
Klug, M. J. 9211
Kluge, R. L. 2571
Klun, J. A. 914, 3667, 5300, 6304, 6877, 8238
Knacker, T. 9085
Knapp, A. 11869-11870
Knapp, J. L. 4191
Knapp, K. A. 7926
Knapp, M. C. 1454
Knaus, R. M. 362, 3439
Knauth, A. 6324
Kneiff, V. 10710, 11648-11649
Knibiehler, B. 3357
Knickmeyer, R. 8108, 11993
Knievel, D. P. 6772
Knight, A. L. 1316, 3156, 3795, 6813, 6815, 8585, 8604, 9686, 11641
Knight, K. L. 8194
Knight, R. L. 8436
Knight, S. S. 8129
Knight, W. J. 10171
Knipling, E. F. 9365
Knisley, C. B. 3530, 9622
Knížek, M. 5027
Knowles, B. H. 8009, 8014
Knowles, C. O. 2880, 4895, 5188, 11168, 11344
Knox, P. 353
Knuckles, M. L. F. 1235
Knutson, A. E. 4643, 9558, 9566, 9570, 11551
Knutson, L. 6495
Knuuttila, T. 4877
Knyazyatova, V. I. 326, 6014
Ko, K. S. 7526, 9442
Ko, N. J. 7784
Ko, W. H. 4889
Kobayashi, A. 1488, 7619
Kobayashi, M. 119, 1366, 3282, 3594, 5530, 6069, 6604, 6609, 11931
Kobayashi, T. 3880
Kobayashi, Y. 4259, 5909
Kobro, S. 3851
Koch, O. R. 9077
Koch, U. T. 3273
Kochan, W. J. 3077
Kochansky, J. 248
Kochenko, Z. I. 2716
Kochetov, A. S. 1325
Kochieva, E. Z. 9277
Kock, A. C. de 8127
Kock, A. E. de 2417
Kocourek, F. 3788

- Kodama, H. 9106
 Kodama, K. 3710, 5669, 7422
 Kodrik, D. 4098
 Koehl, M. A. R. 19
 Koehler, C. S. 6998-6999, 8901
 Koeman, J. H. 6526
 Koenders, L. 11371
 Koeniger, N. 1245, 6524
 Koerber, T. W. 2999, 5991, 10928, 11823
 Koestoni, T. M. 3859
 Koga, D. 2202, 7336
 Koga, K. 7317, 8066
 Kogan, M. 11728
 Koha, E. M. W. T. 11763
 Kohler, J. 1377
 Kohler, M. 774
 Kohlmann, B. 3463
 Kohno, M. 9106
 Kohout, R. J. 5434-5435
 Kohring, G. W. 1217
 Koike, H. 2099
 Koiso, A. 10121
 Koizumi, K. 11213
 Kojima, K. 2272
 Kojima, K. I. 5303
 Kojima, M. 7600
 Kok, L. T. 1620, 4830, 4834, 9496
 Kok-Yokomi, M. L. 2755
 Kokate, P. R. 11192
 Kokta, C. 2599
 Kolaib, M. O. 4768
 Kolankaya, D. 7107
 Kolarov, J. 9429
 Kolarov, Ya. A. 3559
 Kolbe, M. M. 6583
 Kolbe, W. 2997
 Kölber, M. 5842
 Kolber, M. 1745
 Kőlcsei, T. 9026
 Kolesík, M. 8694
 Kolesík, P. 8694
 Kolesnichenko, I. P. 2028
 Kolesnik, M. G. 6913
 Kolesnikov, L. O. 383
 Kolesova, D. A. 551
 Kolev, D. A. 3548
 Kolhe, D. S. 8688
 Kolk, A. 8824
 Koller, W. W. 6752
 Kolodny-Hirsch, D. M. 3000, 8746, 11824
 Kolodochka, L. A. 4156
 Kolomiets, N. G. 3043
 Kolomoets, T. P. 10197
 Kolkpakov, I. E. 4212
 Kolyadko, N. N. 608
 Komazaki, S. 5748
 Komeili, A. B. 10431
 Komissarova, L. A. 11956
 Komitopoulou, K. 7395
 Komkov, D. Ya. 3139
 Kompantseva, T. V. 4251
 Komura, H. 3104
 Komuves, L. 2200
 Kon, M. 2815, 6879
 Konar, A. 6836
 Kondakov, Yu. P. 11789
 Kondakova, M. V. 1768
 Kondal, J. K. 10127
 Kondo, A. 8402
 Kondo, E. 6071, 11068
 Kondo, S. 1418
 Kondratieff, B. C. 4731, 4755
 Konečný, K. 7798
 Kong, F. L. 6825
 Kong, W. Z. 3274, 6343
 Konialis, C. P. 3354
 König, J. 517
 König, W. A. 4307, 8907
 Konings, P. N. M. 1103, 4324
 Konishi, K. 6880
 Konno, T. 2930
 Konno, Y. 10111-10112
 Kono, S. 8002
 Kononova, S. V. 11465
 Konrad, P. 1598, 3894
 Konradt, M. 8058
 Konsolaki, M. 7395
 Konstantinova, G. M. 8548
 Konverskaya, V. P. 5501
 Konyukhov, V. P. 6307, 6822
 Kooi, R. E. 10504
 Koopmanschap, A. B. 5414
 Kopelke, J. P. 4039, 4041
 Kopitz, S. 5770
 Koponen, M. 7527, 8353
 Kopp, D. D. 7250
 Koptur, S. 1530
 Kopylov, V. I. 7715
 Koralewska-Batura, E. 6615
 Korchagin, V. N. 524-525, 530, 533, 538
 Korcz, A. 4878, 6857
 Kördel, W. 9062
 Korean Journal of Applied Entomology 9029, 10214
 Korge, G. 7381
 Koritsas, V. M. 4820
 Korman, A. K. 4909
 Kormos, B. 7882
 Kornegay, J. 2822
 Kornegay, J. L. 5806
 Korner, H. 2690
 Korneva, N. V. 2402
 Kornilov, V. G. 1599
 Kornošor, S. 2626, 8496, 9560
 Korobelnikov, Yu. I. 2377
 Korochkin, L. I. 1116
 Korona, R. 11023
 Korotich, P. F. 677
 Korotkova, A. A. 512
 Korsós, I. 5200
 Kort, C. A. D. de 1118, 5414, 11340
 Korte, D. W., Jr. 11165
 Korzenev, V. V. 1209
 Korzeniak, U. 4076
 Korzun, V. M. 2336
 Kosaka, Y. 9846
 Kosasih, A. S. 7908
 Koshevskaya, N. N. 5501
 Koshihara, T. 4833
 Koshkarova, D. D. 3822
 Koshkaryan, A. O. 11991
 Koshy, G. 8178
 Koskinen, P. 1835
 Košlínska, M. 8583
 Kossou, D. K. 10028
 Kostandi, S. N. 8092
 Koster, A. 8163
 Kostina, L. I. 1920
 Kostina, M. N. 3206
 Kostova, I. 4219
 Kostyuk, V. P. 8730
 Kostyukiovskii, M. G. 373
 Kosztarab, M. 1009, 3248, 3262, 9164, 10213
 Kotake, M. 6609
 Kotaki, T. 5742
 Koteja, J. 8209
 Kotikal, Y. K. 2729
 Kotler, B. P. 7533
 Kotopoulou, A. 9696
 Kotova, V. V. 644
 Kotze, A. C. 6211
 Kotzé, J. M. 2085
 Kou, R. 7069, 8797
 Kouassi, P. K. 5521
 Koul, O. 8967, 10536
 Koul, V. 6871
 Koul, V. K. 1561, 2718, 8579, 9671
 Koutsaftikis, A. 3016
 Kovach, J. 5731
 Kovacs, E. 10088
 Kovacs, J. 2200
 Koval', A. G. 696
 Kovalenkov, V. G. 271, 273, 922
 Kovalev, B. G. 922, 2227, 3793, 7240, 8935, 11311
 Kovalev, O. V. 10194, 11466
 Kovalev, V. G. 6307
 Kovarik, P. W. 7553
 Koveos, D. S. 3633, 11670
 Kowalski, A. 1324
 Kowalski, R. 109
 Koya, K. M. A. 346, 6670, 9647, 10532
 Koyama, K. 9433
 Koza, A. 55
 Kozai, S. 9843
 Kozánek, M. 3345
 Kozár, F. 1009, 2367, 2695, 9012
 Kozár, F. 9151
 Kozarzhenskaya, È. F. 326, 6014
 Kozera, W. 1641-1644
 Kozhanova, N. I. 4216
 Kozhechkin, O. A. 1679
 Kozlov, M. A. 11465
 Kozlov, M. V. 2167, 3046
 Kozlova, N. V. 273
 Kozlovskii, I. 11489
 Kozłowski, J. 3800
 Kozub, G. C. 2683
 Kraan, C. van der 8307
 Krafft, B. 237
 Krainacker, D. A. 2383
 Kramer, D. A. 9968
 Kramer, K. J. 1124, 2194, 2281, 3297, 11915
 Kramer, M. E. 1665
 Kramer, S. J. 6355, 10306
 Krampl, F. 5385
 Krantz, G. W. 1267, 4460, 9431
 Krasavina, L. P. 1279
 Krasnoff, S. B. 85, 108
 Krasnyuk, E. P. 9070
 Kratochwil, A. 2676
 Kraus, W. 1412, 9499, 10160
 Krause, G. F. 4647
 Krauthausen, H. J. 3893, 8686
 Krczal, H. 1546
 Krebs, E. K. 7004
 Křeček, J. 1347, 3578, 4453
 Kredler, M. 3551
 Kreiter, S. 2958, 6228
 Kremer, H. 9278
 Kremer, R. J. 4647, 5551, 6631-6632, 9567
 Kremheller, H. T. 351
 Kreutzweiser, D. P. 11189-11190
 Krieg, A. 1001, 1019, 1963
 Krieger, J. 118
 Krieger, K. 1248
 Krikken, J. 5265
 Kring, T. J. 3726, 6749
 Krinsky, W. L. 2474
 Krischik, V. 11007
 Krischik, V. A. 7965
 Kriščiūnienė, R. 3119
 Krishchyunene, R. A. 3119
 Krishna, B. G. 8400
 Krishna, S. S. 4185, 5282, 8221, 11502
 Krishnaia, P. V. 3855
 Krishnaiah, K. 423, 1619, 2653
 Krishnaiah, N. V. 422
 Krishnakumar, N. K. 2805
 Krishnakumar, R. 11178
 Krishnakumari, M. K. 7210
 Krishnamohan, G. 7853
 Krishnamoorthy, A. 2761, 6789, 6849, 8389, 10459, 10726
 Krishnamoorthy, P. N. 629, 2805
 Krishnamurthy, M. M. 3687-3688
 Krishnamurthy, P. N. 585, 11629
 Krishnasamy, V. 9600
 Krishnaswami, S. 11497
 Krishnaswamy, S. 8917
 Kristiansen, L. W. 5809
 Kritsky, G. 126, 8219
 Krivchenko, V. I. 2620, 10573
 Krivoluckij, D. A. 5377
 Krivov'yaz, I. Z. 394
 Kroczyński, J. 3174, 5167
 Kroening, M. K. 4731, 4755
 Krohn, S. 1377
 Krombein, K. V. 7248
 Kronenberg, J. M. 5197
 Kronka, R. N. 539
 Kronka, S. N. 539
 Kruatrachue, M. 3602
 Krueger, H. R. 1559
 Krueger, R. A. 2281
 Krueger, W. H. 6801
 Krüger, W. 5784
 Kruglyakova, T. P. 3118
 Kruijjer, J. D. 1380
 Krumlik, G. J. 10910
 Krunić, M. D. 8539
 Krupadanam, G. L. D. 1986
 Kryazheva, L. P. 381
 Krylova, N. V. 4990
 Krynitsky, A. J. 3181, 3441
 Krysan, J. L. 9104, 9170, 9691-9692
 Kryuchkova, E. E. 2515
 Kryzhanovskii, O. L. 10187
 Krzysiańska, J. 7109, 8747
 Krzystynaik, K. 3186
 Kshemkalyani, S. B. 11192, 11935
 Ku, C. C. 570, 864, 6859, 11197
 Ku, Z. 10063
 Kuang, H. 4961
 Kuang, H. Y. 1829, 5947-5948
 Kuba, H. 2217
 Kubaichuk, V. P. 6916
 Kubica-Breier, J. S. 11593
 Kubo, I. 8074
 Kubo, T. 7684
 Kubota, S. 6878, 9728
 Kubota, T. 9469
 Kučera, M. 6080
 Kuchkarov, U. 10695
 Kudō, I. 9142
 Kudo, I. 6807
 Kudō, S. I. 540
 Kudrhalt, U. 8155
 Kudrna, O. 8302, 11262
 Kuehnle, A. R. 8499
 Kuenen, L. P. S. 3023, 6313
 Kugler, J. 1173, 10241
 Kühlmann, R. 11144
 Kuhn, E. P. 2068
 Kühne, K. S. 10374
 Kühne, T. 5770
 Kuitunen, H. 8856
 Kukał, O. 821, 9953
 Kukor, J. J. 5939
 Kukovinets, O. S. 11310
 Kukso, V. M. 8934
 Kukuk, P. F. 4499
 Kula, E. 4278
 Kulakosky, P. C. 1113
 Kular, J. S. 9877
 Kulcsár, P. 9102, 11342-11343
 Kulhavy, D. L. 1785, 10929
 Kulik, A. V. 5364, 8730
 Kulikova, E. G. 1752, 2696
 Kulinčević, J. M. 1258
 Kulkarni, G. N. 7602
 Kulkarni, K. A. 8391, 10895
 Kulkarni, K. M. 6193
 Kulkarni, N. 1483
 Kulkarni, S. 10496
 Kulkarni, S. B. 11187
 Kulkarni, U. V. 9821, 10078
 Kulman, H. M. 6441, 8361, 11793
 Kul'minskaya, L. A. 516, 11628
 Kulthe, K. S. 10795
 Kumagai, K. 2271, 8255-8256
 Kumagai, Y. 9928
 Kumar, A. 938, 2014, 2810, 4180, 4852, 6222, 6543, 6864, 6873, 7399, 7789, 9776, 11442
 Kumar, C. 3824
 Kumar, D. 186, 1126, 8512
 Kumar, D. R. 10745
 Kumar, D. V. 5205
 Kumar, I. 9598
 Kumar, K. K. 3809
 Kumar, M. 5420
 Kumar, N. 6593
 Kumar, N. K. K. 9754

- Kumar, P. 2886, 3506, 3979, 4530, 5466, 6543, 6561, 7084, 8370, 8386
 Kumar, R. J. 1986
 Kumar, S. 4812, 4863, 5206, 5525, 7537, 7783, 7842, 8091, 9676, 11490, 11723, 11761
 Kumar, S. N. 2042
 Kumar, T. P. 1406, 9508
 Kumar, V. 736, 1095, 5497
 Kumar, Y. 966
 Kumaran, A. K. 11328
 Kumarasamy, T. 8390
 Kumarasinghe, N. C. 6695
 Kumaraswami, T. 746, 11693, 12010
 Kumaresan, D. 6233, 11522
 Kumari, K. 2054
 Kumari, K. V. K. 8401
 Kumari, P. S. 10496
 Kumari, S. 5804
 Kumari, S. J. L. 2207
 Kumashiro, B. R. 1971
 Kumavat, S. R. 7218
 Kumawat, S. R. 7842, 11761
 Kume, K. 4081
 Kumprataung, W. 3602
 Kun, S. W. 11380
 Künast, C. 6956, 7544
 Kuncio, G. S. 9145
 Kundu, D. K. 421
 Kundu, G. G. 11587, 11730
 Kundu, S. C. 1362
 Kunert, J. 10377
 Kung, K. S. 6989
 Kung, S. P. 11943
 Kunimi, Y. 10259
 Kunkelblum, E. 6434
 Künnecke, W. 9348
 Kuno, E. 2764, 3692, 10008
 Kuntha, C. 6019, 8453
 Kunz, T. H. 7425
 Kuo-Sell, H. L. 3964, 9544, 11786
 Kupke, T. 8031
 Kurczewski, F. E. 9406
 Kurian, C. 9647
 Kurihara, N. 956
 Kurihara, Y. 1363, 3782, 7427, 11571
 Kurir, A. 8156
 Kurisu, K. 3098-3099
 Kurita, Y. 934
 Kurl, S. P. 3350, 3353, 3957
 Kuroda, E. 9709
 Kuroda, K. 8044
 Kuroda, Y. 6500
 Kuroli, G. 8446
 Kurosa, K. 9407
 Kurosu, U. 3022, 9939
 Kurppa, S. 8071, 9486, 9535-9536
 Kurtadikar, J. S. 4865
 Kurth, H. 3906
 Kurtti, T. J. 7146
 Kuschel, G. 5261
 Kushigemachi, K. 9707
 Kushwaha, K. S. 2656-2657, 4671, 11569
 Kusigemati, K. 243, 2957
 Kuslitskii, V. S. 2727, 5724
 Kusters, G. J. 10265
 Kuteev, F. S. 810, 1768
 Kütthe, K. 682
 Kuthiala, A. 105-106
 Kutsch, W. 4442
 Kutscherowsky, M. 11188
 Kuttalm, S. 6851
 Kuwabara, K. 2394
 Kuwabara, N. 10061
 Kuwahara, T. 8066
 Kuwahara, Y. 6299, 9779, 10270-10271
 Kuwano, E. 1357, 9082
 Kuzhir, T. D. 7384, 11957
 Kuzin, A. A. 624
 Kuzina, N. P. 847, 8935
 Kuzio, J. 11103
 Kuznetsov, B. N. 215
 Kuznetsov, N. N. 537, 1331
 Kuznetsov, S. Yu. 2165
 Kuznetsov, V. I. 3423-3424
 Kuznetsov, V. N. 589, 6015
 Kuznetsova, T. L. 2926
 Kuznetsova, Yu. I. 2453
 Kwiecień, S. 11474
 Kwon, Y. H. 293-294
 Kyamme, T. 1872
 Kybal, J. 7160
 Kyriakides, M. A. 4568
 Kyriakidis, E. G. 9013
 Kyrki, J. 3233
 La Fage, J. P. 3073, 4552, 8961, 10974
 La Guardia, R. Díaz de 5426, 11326
 La Rosa, G. de 8636
 La Torre, J. de 1214
 La Torre-Bueno, J. R. de 3218
 Laan, R. M. 10534
 Lababidi, M. S. 1293, 1742
 Łabanowska, B. H. 8558, 8561
 Labate, J. 9281
 LaBerge, W. E. 212
 Labeyrie, V. 10646
 Labh Singh 9769
 Labhart, T. 10299
 Labinov, S. A. 8681
 Labonne, G. 10387
 Laborda, E. 977
 Laborda, R. 4354
 Laborius, A. 1907
 Lacadena, J. R. 1134
 Lacape, M. 10866
 Lacatusu, M. 6002
 Laccone, G. 3816, 11637
 Lacerda, C. A. 9784
 Lacerda, C. A. de 6942
 Lacey, M. J. 11349
 Lach, G. 8118
 Lachaud, J. P. 9352, 10403, 10419, 10421-10422
 Lacher, T. E., Jr. 4188
 Lachqer-Sillou, K. 10735
 Lack, K. J. 10698
 Lackie, A. M. 11314
 Lacoecilhe, J. J. 1597
 Lad, M. R. 4782
 Lad, S. K. 1499
 Ladd, T. L. 694
 Ladd, T. L., Jr. 11820
 Ladhar, S. S. 3182
 Laffort, B. 10420
 Laflamme, G. 5972
 Lafont, R. 9248, 10308, 11331
 Lage, J. L. da 4360, 5290
 Laghi de Souza, H. M. 5105
 Lago, P. K. 5378
 Łagowska, B. 5068
 Lagoy, P. K. 4996
 Lagueux, M. 4322
 Lagunes, T. A. 742
 Lagunes Tejeda, A. 404, 742
 Lahitte, J. D. de 1240
 Lahti, T. 4015
 Lai, J. S. 1082
 Lai, R. M. 6931
 Lai, Y. S. 8331, 9472
 Laine, K. R. 7077
 Laing, D. J. 4472
 Laing, D. R. 9054
 Laing, J. E. 4504, 5993, 9408
 Lajide, L. 4551
 Lajis, N. H. 2215
 Lajoie, P. 7201
 Lakes, R. 10257
 Lakhani, K. H. 9051
 Lakhotia, S. C. 9276
 Lakkundi, N. H. 1602, 2828
 Lakra, R. K. 1573, 3013, 6846, 11771
 Laksanawati, A. 11695
 Lakshmanan, M. 11225
 Lakshmi, K. S. 2042
 Lakshmi, P. 5342
 Lakshminarayana, K. 518
 Lal, B. 858, 3980
 Lal, L. 693, 1686, 1688, 1692, 7822
 Lal, O. P. 3407
 Lal, S. B. 6853
 Lal, S. S. 670, 3887, 5816, 10807
 Lallanne-Cassou, B. 3959
 Lalitha, C. R. 10071
 Lalitha, P. 585
 Lalji Prasad 5920
 Lall, A. B. 2252
 Lam, J. 10539
 Lam, J. J., Jr. 4946
 LaMadeleine, L. 11870
 Lamb, R. C. 1563, 9683
 Lamb, R. J. 2799, 3741
 Lambert, J. D. H. 4642, 7983
 Lambert, J. G. D. 2276
 Lambert, L. 657, 6891-6892, 7801, 8714
 Lambkin, T. A. 8929, 10949
 Lamborot, L. 4780, 4876, 5690
 Lamkey, K. R. 9569
 Lamnissou, K. 5271
 Lamp, W. O. 4699, 10648, 11604
 Lampel, G. 4411
 Lampert, E. P. 2933, 10873
 Lampman, R. L. 233, 2636, 6866, 7788, 11543
 LaMunyon, C. 2490
 Lance, D. R. 9319, 10595
 Lanciani, C. A. 3286, 4305, 6442
 Lançon, J. 10866
 Landell Mills, J. 11953
 Landim, C. C. 1047
 Landis, D. A. 1414, 1455
 Landman, W. 6372-6373
 Landolt, P. J. 2672, 5713, 7762, 11122
 Landry, B. 9661
 Landwirtschaftliches Jahrbuch der Schweiz 2507
 Lane, D. D. 11232
 Lane, D. W. A. 6491
 Lane, G. A. 6773
 Lane, M. A. 7554
 Lane, N. J. 3102
 Lang, P. M. 9908
 Lange, A. B. 7358
 Lange, C. 2411, 10400, 10406, 11042
 Lange, C. E. 7137
 Langenau, S. 9278
 Langenbach, K. 238
 Langenbruch, G. A. 3902, 10600
 Langenheim, J. H. 807, 2962
 Langevine, C. N. 8084
 Langewald, J. 4044
 Langham, M. R. 12018
 Langi, T. F. 4085
 Langmaid, J. R. 9338, 9505
 Langor, D. W. 8861, 10964
 Långström, B. 1778, 10926
 Lanier, G. N. 5051, 6268
 Lanjewar, R. D. 4932
 Lankenau, D. H. 9278
 Lanne, B. S. 2229, 2418, 5037
 Lanner-Herrera, C. 4106
 Lannic, J. le 5452
 Lansac, M. 1568
 Lánský, M. 11649
 Lantagne, D. O. 10936
 Lantin, B. 2090
 Lantos, J. 5200
 Lanz, K. 9095
 Lanza Reis, L. 5623
 Lanzrein, B. 1119, 11338
 Lapchin, L. 3398
 Lapis, E. B. 9927
 Lapková, Z. 10996
 Lapointe, S. L. 1512, 11406
 Lappin, G. J. 6217
 Lara, G. Z. de 631
 Lara, S. P. 4773
 Larcher, S. F. 9156
 Larcheveque, M. 2216
 Lardier, P. A. 11212
 Lardner, R. M. 10637
 Larew, H. G. 4971
 Larin, Z. 345
 Larink, O. 1045
 Larios, P. F. 4613
 Larivière, M. C. 10364, 10460
 Larkindale, J. 11435
 Larkworthy, L. F. 954
 Larochelle, A. 10364, 10460
 Larrain, P. I. 8663
 Larrue, J. 10680
 Larsen, K. J. 11528
 Larsen, O. N. 3318
 Larson, L. 8482
 Larsson, F. K. 8272
 Larsson, S. 5958
 Lartey, R. 1925
 Lartey, R. T. 9020
 LaSalle, J. 4521, 6986
 Lasebikan, B. A. 1364
 Lashomb, J. 8997
 Lashomb, J. H. 1315, 7833
 Láska, P. 1617, 3549, 4514, 10778
 Laskey, J. 5198
 Laskowski, D. A. 9097
 Lasota, J. A. 4834
 Laster, M. L. 915, 8769
 Laštůvka, Z. 2560
 László, G. 11221
 Lateef, S. S. 3868
 Lategan, K. 5631
 Latgé, J. P. 894-895, 6066, 8972, 8998
 Lathi, B. 4312
 Latigo, A. A. 3194
 Latimer, W. 461
 Latli, B. 6305
 Lattanzi, G. 4192
 Lattauschke, G. 397
 Lattin, J. D. 2504, 7513, 8882
 Latto, J. 5481, 6405
 Lauch, M. 6175
 Lauenroth, W. K. 8326
 Laughlin, J. 11200
 Laughlin, J. M. 8933
 Laughlin, S. B. 6345
 Laurema, S. 9825
 Lauren, D. R. 466, 11597-11598
 Laurence, F. 3458
 Laurent, G. 3470
 Laurent, J. C. 6228
 Lauriat, F. 10387
 Lauverjat, S. 8258
 Laux, W. 4221-4222
 Lavallée, A. 3032
 Lavallée, C. 7149
 Lavanceau, P. 953, 8079
 Lavazza, A. 10478
 Lavee, A. 772, 779
 Lavelle, P. 1348, 8922
 Lavenseau, L. 5277, 5293, 5311
 Lavers, A. 7161, 11134
 Lavie, B. 5100
 Lavigne, R. J. 5561, 11255
 Lavine, B. 2415
 Lavrik, P. B. 6320, 11928
 Lavy, T. L. 2040
 Law, J. H. 2187, 3339, 4315, 7371, 9242
 Law, R. J. 7206
 Lawrence, J. F. 9130
 Lawn, R. E. 11149
 Lawrence, J. F. 3419, 4367, 5102, 8198, 11806
 Lawrence, P. 3355
 Lawrence, P. O. 9351, 11329, 11475
 Lawrence, R. K. 8854, 8869
 Lawrence, W. S. 8920
 Lawson, H. M. 510
 Lawton, J. H. 236, 1530, 6636, 11504
 Laycock, D. S. 1613
 Layne, J. R., Jr. 10350
 Layton, M. B. 1658, 1661, 1667, 2842, 6896
 Layton, R. C. 8492
 Lazaridou-Dimitriadou, M. 5540, 6619, 9485
 Lazurkina, N. V. 4353, 7239
 Le, D. P. 9034
 Le Bivic, A. 3357

- Le Blanc, J. P. R. 3764, 8563
 Le Bourg, E. 8279-8281
 Le Bras, S. 2023
 Le Fort, E. 7960
 Le Gallo, J. Y. 10735
 Le Hieu Huu 10630
 Le Lannic, J. 5452
 Le Masurier, A. D. 8384
 Le Parco, Y. 3357
 Le Patourel, G. 4950
 Le Patourel, G. N. J. 6033
 Le Roux, A. M. 10415
 Le Roux, G. 10415
 Le Roux Nielsen, C. 4522
 Le Rü, B. 2100, 6935, 10837
 Le Strat, A. 5452
 Leach, J. E. 10766
 Leahey, J. P. 11191
 Leake, L. D. 3173, 6145
 Leal, W. S. 6299, 9779, 10270-10271
 Leanza, C. A. 11614
 Leão Neto, R. R. 8771, 9715
 Leather, S. R. 785, 826, 841, 5594, 5937, 6289, 7903, 9917, 11254
 Lebeda, A. 10778
 Lebedev, I. V. 2384
 Lebedeva, K. V. 11306
 Leblon, C. 6697
 Leblová, S. 8109
 Lebrun, M. H. 11085
 Lebrun, P. 2024
 Lecadet, M. M. 8976, 11099
 Lecher, P. 7326
 Lechleitner, R. A. 6321-6323
 Lechner, M. 8031
 Lechowicz, M. J. 5938
 Leckie, D. G. 1771
 Leclant, F. 2109, 4492
 Leclercq, M. 4321
 Lecomte, C. 235, 721, 10748
 Lecomte, J. 4321
 Lecoq, M. 7277
 Lecrone, S. H. 3852, 6667
 Leddy, P. 8914
 Lederhouse, R. C. 2319, 4003, 10896
 Lee, B. H. 36
 Lee, B. M. 10036
 Lee, C. P. 11904
 Lee, C. Y. 21, 1044, 4277, 4313, 11777
 Lee, D. 6251
 Lee, D. L. 1474
 Lee, G. T. 6824
 Lee, H. H. 6081
 Lee, H. K. 20, 10036, 10045
 Lee, H. P. 3691, 3914, 7526, 8364, 9403, 9442, 11346
 Lee, H. S. 2797
 Lee, J. C. 6422
 Lee, J. H. 1705, 3914, 7526, 8364, 9442, 9806
 Lee, J. J. 20, 843
 Lee, J. M. 5612, 10153
 Lee, J. O. 1188
 Lee, J. W. 1030
 Lee, K. 9199, 10813
 Lee, K. H. 1480
 Lee, K. R. 104, 9262, 11346
 Lee, M. H. 5119, 8297, 8589, 11538
 Lee, P. C. 9591
 Lee, R. E., Jr. 124, 6403, 9399, 10350
 Lee, R. W. K. 57
 Lee, S. A. 8151
 Lee, S. C. 4275, 9058-9059, 11722
 Lee, S. D. 103
 Lee, S. K. 5633
 Lee, S. M. 7177
 Lee, S. N. 11347
 Lee, S. P. 293-294
 Lee, S. S. 5335, 5612, 11557, 11557
 Lee, S. U. 1370
 Lee, S. W. 8589
 Lee, U. J. 8618
 Lee, W. K. 8352
 Lee, W. M. 3102
 Lee, W. Y. 10272
 Lee, Y. C. 3747, 6081
 Lee, Y. D. 10045
 Lee, Y. H. 2833, 2843
 Lee, Y. I. 3691
 Lee, Y. S. 1206, 3747, 11538
 Leclavathy, K. M. 10071
 Leemans, J. 6131
 Leenakumary, S. 5658
 Leenheer, A. P. de 4515
 Lees, D. 6397
 Lees, G. 3216
 Leeuw, R. de 4324
 Leeuwangh, P. 6201
 Lefevre, K. S. 99, 1118
 Lefevre, H. 6369
 Leffef, F. 1770
 Legako, J. N. 1505
 Legaspi, B. A. C., Jr. 3938
 Legel, S. 852
 Leger, R. J. S. 10066
 Leger, R. J. St. 8032
 Legg, C. S. 5814
 Legg, D. E. 2922, 4698, 5095, 9823
 Legg, G. 4226
 Leggett, J. E. 4923-4924, 9882
 Legner, E. F. 1967
 Lehmann, W. 11089, 11906
 Lehr, J. H. 5210
 Lei, H. D. 7749
 Lei, H. Z. 7623
 Lei, P. 7511
 Lei, S. F. 3655
 Leibe, G. L. 6859
 Letbenzon, M. G. 171
 Leidy, N. A. 4994, 5935
 Leigh, T. F. 4935
 Letman, P. O. 3903
 Leimar, O. 2150
 Leirikh, A. N. 3367
 Leite, L. G. 8971
 Leka, A. 259
 Leluk, J. 7502
 Lema, K. M. 6933
 Lemaire, C. 10690
 Lemaire, M. 11042
 Lemaitre, C. 6440
 Lemoine, A. 8941
 Lemos, M. A. 8502
 L'Empereur, K. M. 9913
 Lempeke, B. J. 2322, 2359
 Lenczewski, B. 5402
 Lenga, A. 8004
 Lenhard, G. J. 4017
 Lenoir, A. 10415, 11427
 Lenoir-Rousseaux, J. J. 95, 5516
 Lensky, Y. 1255
 Lent, J. W. M. van 4124
 Lenteren, J. C. van 4838, 5369, 9859
 Lentini, Z. 5844
 Lentner, M. 4830
 Lentz, G. 1015
 Lenz, C. J. 7355
 León, R. P. 4911
 Leonard, B. R. 2914-2915, 5882, 6982, 8775, 10801, 10861
 Leonard, J. G. 7023
 Leonard, P. K. 11154
 Leonardo, A. M. C. 1047, 10247
 Leong, E. C. W. 10380
 Leonhardt, B. A. 4428, 10952
 Leopold, R. A. 9289
 Lepage, M. 1350, 5520-5521, 5524, 10486, 11484
 Leprecht, B. 10753
 Ler, P. A. 4271, 4416, 10198
 Leraut, P. 9149
 Lereclus, D. 7127, 8976, 11099
 Lerner, M. R. 6349
 Leroi, B. 10797
 LeRoux, E. J. 6713
 Leroux, P. 11206
 Léry, X. 11411
 Lery, X. 6490, 11933
 LeSage, L. 10389
 Leschen, R. A. B. 600
 Leskinen, L. 6494
 Leskó, K. 5017, 11807, 11830
 Leskók, K. 8851
 Lesovoí, M. P. 10575
 Lešriak, A. 9344
 Lessard, T. 1937
 Lessman, C. A. 1120
 Lester, D. G. 1525
 Lester, E. 10190
 Lester, J. N. 982
 Leszczynski, B. 4630
 Letardí, A. 5473
 Letarte, R. 3106
 Leterme, P. 10767
 Letourneau, D. K. 8662, 9771, 11710
 Letourneau, M. W. 6198
 Lettenmaier, D. P. 10143
 Leu, R. D. 1083
 Leu, S. J. 6765
 Leufvén, A. 787, 2984
 Leung, H. 101
 Leung, J. W. 8893, 10906
 Leung, M. K. 7359
 Leuprecht, B. 3836, 3839
 Leuschner, K. 8518
 Leuthold, R. H. 284, 9461
 Livedakou, E. N. 3354
 Levi, P. E. 2814
 Levieux, J. 1846, 7469, 9980
 Levina, A. B. 11957
 Levine, E. 5618, 5624, 11242
 Levine, L. 7722
 Levine, R. B. 6330, 11322
 Levings, S. C. 192
 Levins, R. 1842
 Levy, G. 10467
 Lew, A. 6162
 Lewis, A. C. 2318
 Lewis, D. L. 282
 Lewis, G. B. 7452
 Lewis, J. 3180
 Lewis, J. A. 4307, 4820
 Lewis, J. H. 9030
 Lewis, L. C. 890, 1314, 3547, 5127, 11445
 Lewis, M. J. 8421
 Lewis, P. A. 7788
 Lewis, R. 7148
 Lewis, S. P. 5001
 Lewis, W. J. 250, 1297, 4542, 4856, 8488, 9441, 11941
 Ley, S. V. 4220, 10159, 10537, 11962, 11981, 12012
 Leyva-Vázquez, J. L. 9398
 Lhaloui, S. 6701
 Lherminier, J. 7717, 7791
 Li, B. J. 4108
 Li, C. R. 2895
 Li, C. S. 10562
 Li, C. Z. 4805
 Li, D. 10175
 Li, F. 7509
 Li, F. G. 10892
 Li, F. Q. 5411
 Li, G. 4113
 Li, G. Q. 7862
 Li, G. X. 10175, 10177
 Li, H. K. 5771, 6679
 Li, J. G. 3653
 Li, J. K. K. 6765
 Li, J. P. 6355, 10306
 Li, J. T. 11002
 Li, J. Y. 9932
 Li, K. D. 2223
 Li, L. 4496
 Li, L. C. 5490
 Li, L. Y. 2388, 9415
 Li, L. S. 1254
 Li, M. T. 8991
 Li, P. 3697
 Li, Q. F. 749
 Li, Q. S. 9866
 Li, R. S. 8038
 Li, S. J. 9932
 Li, S. Q. 5115, 11507
 Li, S. W. 9420
 Li, T. 9359
 Li, T. S. 4805
 Li, T. Y. 9301
 Li, W. 3673
 Li, W. G. 3673
 Li, W. J. 2602
 Li, W. Q. 10072
 Li, W. Z. 7862
 Li, X. 3086
 Li, X. P. 4665
 Li, X. Q. 9424
 Li, X. Y. 7510
 Li, X. Z. 2900, 5554
 Li, Y. 4418
 Li, Y. G. 5179
 Li, Y. H. 5503
 Li, Y. Q. 9954
 Li, Y. X. 4497, 8600
 Li, Z. C. 9426
 Li, Z. D. 9462
 Li, Z. L. 4164
 Li, Z. Q. 5782
 Li, Z. X. 2907
 Li, Z. Y. 10892
 Li, Z. Z. 5136
 Lian, J. H. 3978
 Lian, J. L. 4485
 Liang, C. F. 6114
 Liang, M. 5108
 Liang, T. C. 8137
 Liang, X. L. 4555
 Liao, D. X. 7937
 Liaw, G. J. 4560, 10487
 Libenko, N. A. 3924
 Liberman Cruz, M. 9606
 Liberti, G. 4403
 Lichou, J. 11244
 Lichtenberg, E. 6102
 Lidell, M. C. 10565
 Lidert, Z. 4220, 10159
 Liebhold, A. 7948
 Liebhold, A. M. 7944, 11810
 Liebrechts, W. J. M. M. 581
 Liedo, P. 8636
 Liepa, I. 1695
 Lier, F. L. J. van 11090, 11107
 Lieutier, F. 7963, 9980
 Lifshitz, S. E. Vecht- 7128
 Light, D. M. 2213
 Lightfoot, D. C. 10523
 Lighthart, B. 4138, 4543
 Lighton, J. R. B. 205, 6371, 9246
 Liguori, M. 5711
 Liljefors, T. 8231
 Lillo, E. de 3628
 Lim, K. P. 3005, 7915
 Lim, T. K. 761, 10876
 Lim, T. P. 4168
 Lima, C. C. A. 4710
 Lima, J. O. G. de 9780
 Lima Barbosa, S. M. de 4710
 Limaszewski, J. 6537
 Lin, C. Q. 9479
 Lin, G. N. 3533
 Lin, G. Q. 10278
 Lin, H. C. 11728
 Lin, H. Z. 3365, 3993
 Lin, J. G. 8226
 Lin, J. Z. 10759
 Lin, K. R. 9601
 Lin, K. S. 3523, 4784
 Lin, Q. F. 5336
 Lin, R. F. 11563
 Lin, S. C. 5696
 Lin, S. Y. 9061
 Lin, T. L. 2659
 Lin, X. Y. 4097
 Lin, Y. Z. 3693, 5486, 5656
 Linares, B. 9561
 Lincoln, D. E. 6671
 Lindberg, H. 4256
 Linde, A. 1612
 Linde, T. C. de K. van der 6599
 Lindelöw, Å. 803, 11852
 Lindeman, G. von 1713
 Linden, A. van der 4536
 Lindenfelser, L. A. 1270
 Linder, R. 5198
 Lindgren, B. S. 3007
 Lindner, B. 5423

Lindner, W. A. 1230

Lindow, S. E. 8029

Lindquist, E. E. 2465, 7060

Lindquist, R. K. 8759, 10891

Lindqvist, I. 5798

Lindroth, R. L. 788, 7952, 10967-10968

Lindsey, G. 5144

Linduska, J. J. 4903, 8497, 8746

Lingappa, S. 242, 11203

Lingren, P. D. 4936

Linit, M. J. 1817, 3392, 10077

Link, D. 4942, 5601, 5820, 5944

Link, J. M. 6198

Linley, J. R. 6657

Linn, B. O. 7183

Linnavuori, R. E. 6476

Linnemans, W. A. M. 3285

Linnik, L. I. 3897

Linsley, E. G. 3409

Linton, D. A. 7918

Lints, F. A. 8279-8281

Lio, G. M. di San 6831

Liong, P. C. 6174

Lions, J. C. 7013, 11012

Lipa, J. J. 7066, 8021

Lipe, W. 8566

Liphschitz, N. 10916-10917

Lipińska, T. 7589, 8466

Lipman, J. 8103

Liquido, N. J. 3081, 8966

Lira, M. A. 8515

Lira, P. V. 4716

Lisansky, S. G. 11256

Liscia, A. 3253

Liška, J. 5385, 6136, 8824

Liske, E. 2249, 9302

Lister, R. M. 8465, 10542

Liston, A. D. 3987

Litsinger, J. A. 443-444, 446-447, 3732, 4673, 7634, 7639, 10627

Little, D. W. de 10965

Little, E. J. 6153, 6155

Littlefield, J. L. 5561

Littlejohn, R. P. 6756

Litun, B. P. 12025

Litvinov, B. M. 501

Litvinov, P. I. 516, 11628

Litzkow, C. A. 4058, 4080

Liu, C. C. 8226

Liu, C. H. 11374

Liu, D. S. 5208

Liu, E. Y. 4107

Liu, F. 7012

Liu, F. S. 9932

Liu, G. 431, 7624, 10052

Liu, G. Q. 7623

Liu, H. 7152

Liu, H. C. 4498

Liu, H. S. 4914, 7012

Liu, H. Y. 1919

Liu, J. 4869, 8798

Liu, J. F. 2457

Liu, J. P. 1659

Liu, L. F. 8043

Liu, L. Y. 10278

Liu, N. X. 9518

Liu, S. D. 5696

Liu, S. S. 4359, 5574, 8368

Liu, T. P. 1262, 3510, 8343

Liu, T. S. 1604

Liu, T. X. 3248, 4274

Liu, W. H. 9415, 9425

Liu, Y. B. 1605, 7823, 11822

Liu, Y. M. 9038

Liu, Z. 2253

Liu, Z. C. 2457, 6731

Liu, Z. L. 3583

Liu, Z. N. 4110

Liu, Z. W. 5183

Liufang 7012

Livingston, D. M. 4135

Livingstone, D. J. 3157-3158

Livne, H. 5045, 9938

Livshits, I. Z. 2723, 2727, 4728, 5724

Ljubenkov, J. 967

Llanderal Cázares, C. 134, 404

Llanderal-Cázares, C. 9826

Llanos, J. 11354

Llewellyn, M. 6083, 6806

Llobet, L. G. 9128

Llorente-Bousquets, J. 9327

Llorente Martínez, J. 7492

Lloyd, H. 10483

Lloyd, H. A. 5429

Lnenicka, G. A. 5325

Lo, C. T. 9459, 9462

Lo, K. C. 2495, 11748

Lo, P. L. 8553

Loague, K. M. 8137

Lobanov, A. L. 2384

Lobinger, G. 1826, 4045

Löbl, I. 9153

Lobo, J. M. 8316

Locatelli, D. P. 4050

Locke, J. 2288

Locke, M. 101, 8229, 10261

Lockely, T. C. 6968

Lockery, K. H. 1076

Lockhart, B. E. L. 10885

Lockley, T. C. 8376, 8544

Lockwood, J. 10210

Lockwood, J. A. 6508, 6653-6654, 8660

Lodenius, M. 4223

Lodhi, G. P. 1497, 6746

Lodi, M. 8807

Lodi, V. 6190

Lodos, N. 1005

Loeb, M. J. 5300, 7368, 10163, 11341

Loeck, A. E. 4624

Loevinsohn, M. E. 9071

Lofgren, C. S. 197, 3482, 4449, 6802

Löfqvist, J. 63, 89, 801, 2418, 3015, 5011, 5037, 5996, 8540, 8835, 10973, 11841

Lofroth, B. 2009

Löfstedt, C. 1662, 5996, 7351, 7734, 8231, 8540, 10273, 10277

Logan, J. 10210

Logan, J. A. 6100, 7328

Logan, J. W. M. 831, 6600, 11477, 11486

LoGerfo, J. P. 8107

Loh, D. K. 7949

Lohar, M. K. 5609

Lohar, W. 3309, 9239, 10304

Lohmann, K. 2998

Löhr, B. 2877, 4893

Lohray, B. B. 4052

Lohse, G. A. 10243

Lohuis, H. 7168

Loi, G. 7892

Lok, M. L. C. 634, 4376, 10790-10791

Lokendra Singh 11194

Loladse, S. 11643

Loladze, Z. P. 5738

Lombardo, V. 2360, 9335

Lomholdt, O. 1233

Lomkov, D. Ya. 921

Lomnicki, A. 4076

Lomovskoi, S. M. 4621

Londhe, G. M. 9865

Londoño, E. C. 10998

Lone, A. H. 8372

Loneragan, G. C. 2707

Longino, J. T. 8859

Longman, D. 11953

Longnecker, M. T. 1806

Longstaff, B. C. 6035, 7978

Lonsdale, D. 4984

Loof, A. de 1218, 3326, 3330, 5337, 5418, 7979

Loon, J. J. A. van 9231

Lopatina, E. B. 2434, 3489

Lopes, D. C. 3053

Lopes, L. R. 6173

Lopes, N. F. 1637-1638, 4845-4846

Lopes Donzele, J. 3053

López, A. B. 5762

Lopez, E. R. 613, 11698

López, J. 9190

Lopez, J. D. 2354, 3391, 8273

Lopez, J. D., Jr. 2918, 9355

López, M. A. U. 217

Lopez, V. F. 3722

López-Abella, D. 876, 8671

Lopez-Avila, V. 11985

López-Ferber, M. 4143

López-Fernández, C. 1214, 3734, 5349

Lopez-Pila, J. M. 6182

López-Villata, M. C. 3820

Lopushanski, S. M. 7941-7942

Lorbeer, E. 5979

Lorber, M. N. 10144

Lord, D. A. 8127

Lord, J. C. 3878

Loreau, M. 8876, 9621, 10446-10448

Lorenz, B. J. 4132, 11946

Lorenz, K. 4602

Lorenz, N. 10600

Lorenzato, D. 2733

Lorenzen, K. 4475, 6769

Lorigiola, A. 8729

Lorio, P. L., Jr. 6001

Loriya, Zh. K. 8019

Los, L. M. 3676, 4761

Los-Den Hartogh, R. L. 2503

Losada, J. C. V. 4911

Lösch, U. 11144

Loschiavo, S. R. 5080

Losev, A. M. 2512, 3554

Losito, L. 6993

Lostao, C. 2549, 7549

Lostao, C. M. 3599

Lott, D. A. 943

Lou, P. C. 9678

Louda, S. M. 6662, 7707

Loudon, C. 4306

Louis, C. 4144

Louis, N. St- 2024

Lourenção, A. L. 655

Loverre, A. 3346

Low, M. G. 1927

Lowery, D. T. 6920

Lowes, D. 7698

Loxdale, H. D. 6663, 9655, 10561, 11440, 11530

Läyttyniemi, K. 5916

Loyttyniemi, K. 5055

Loyttyniemi, R. 5055

Lozano, R. 56, 4336

Lozano García, A. 4176

Lozzia, G. C. 3996

Lu, A. 1081

Lu, B. 10303

Lu, D. Y. 661

Lu, F. M. 11749

Lu, G. S. 1569

Lu, H. L. 6551

Lu, K. H. 27

Lu, L. M. 1352, 5411

Lu, N. 9954

Lu, S. L. 9677

Lu, X. 5740, 7511

Lu, X. C. 5488

Lu, Y. 9459, 9462

Lu, Y. T. 7784

Lu, Z. C. 3685

Lu, Z. Q. 1605, 3844

Lubinevski, Y. 1255

Luboya, K. 1200

Lubyanova, I. P. 9070

Luca, F. de 8172

Lucas, D. 129

Lucas, P. 2254, 7347

Luchanok, V. M. 4028

Luchtel, D. L. 319

Luciáñez Sánchez, M. J. 4987

Luciano, P. 7956, 11620

Luck, R. F. 9680, 10477

Łucka, W. 8003

Lücke, E. 7728

Luckow, V. A. 6074

Luckwill, L. C. 8173

Łuczak, I. 4875

Luczynski, A. 8967, 9652-9653

Ludlow, A. R. 7413

Luff, M. L. 3763, 4694

Luganskii, S. N. 6527

Lugemwa, F. N. 508

Lui, C. H. 4664

Lukashevich, N. A. 350

Lukashina, N. S. 1116

Lukens, J. O. 8923

Lukin, V. A. 545

Lum, P. T. M. 6351, 8925, 11879

Lumaret, J. P. 1368, 2156, 6263

Lummis, S. C. R. 8244

Lummus, P. 6905

Lundberg, S. 7037

Lundehn, J. R. 11015

Lunden, J. D. 480

Lunderstadt, J. 1847

Lunt, G. G. 2248, 2289, 5323

Luo, G. 8038

Luo, H. C. 4555

Luo, J. H. 5358

Luo, J. Q. 3690

Luo, R. W. 10562

Luo, S. B. 4107

Luo, W. G. 3534

Luo, X. N. 8509, 11662

Luo, Y. Q. 7937

Luo, Y. X. 8331, 9472

Luo, Y. Z. 2461

Luo, Z. Y. 3926

Luong, M. C. 7632

Lupa, W. 7002

Lupi, M. 9729

Lupoli, R. 10596

Luque, R. G. 404

Lusby, W. R. 56, 248, 2208

Lusi, A. 7183

Luthra, Y. P. 1497

Luthria, D. L. 10162

Lutterell, R. G. 4927

Luttrell, R. G. 8778, 9884

Lutz, W. 3185

Lutze, G. 917, 9010

Luu, B. 4333, 7343

Lux, M. 1239

Luxton, M. 1879

Lwande, W. 508

Lwoff, L. 3334, 4322

Ly, M. 4195

Lyal, C. H. C. 10613

Lye, B. H. 3916, 6839

Lyla, K. R. 336

Lyle, W. M. 2665

Lynch, C. A. 11024

Lynch, R. E. 7151, 9816

Lyon, H. H. 8167

Lyon, J. P. 4492

Lyra Netto, A. M. C. 8515, 8531, 8750, 9616

Lysenko, N. N. 322

Lysov, A. K. 1599

Lysyk, T. J. 8836, 8865, 10006

Lyu, Y. L. 4275

Ma, B. 3591

Ma, J. Y. 9475

Ma, M. 10311

Ma, S. W. 4559

Ma, W. Y. 7019

Ma, X. 7152

Ma, X. H. 2907

Mabelis, A. A. 5681

Mabuchi, M. 7022, 9672

Máca, J. 6257

Macalady, D. L. 936

McAlpine, J. F. 4225, 11703

McAuslane, H. J. 6977

McAvoy, T. J. 1620

McBride, L. A. 2266

McBride, M. C. 2382

McCabe, G. P. 4746

McCabe, T. L. 3454

McCaffery, A. R. 6153-6155, 9985

McCaffrey, J. P. 8422

McCallum, A. S. 7361

McCann, I. R. 9355

McCarthy, W. J. 6093, 7024

McCarty, J. C. 8772

McCarty, J. C., Jr. 2925, 4926, 5883, 7855

- McCaughey, W. W. 1791
 McCauley, D. E. 3010
 McCauley, G. W., Jr. 11532
 McChesney, M. M. 5635
 McClay, A. S. 8419
 McClendon, R. W. 658, 1666, 10800
 McCloud, E. S. 11007
 McClure, M. S. 1556, 5945, 7071, 9971, 11813
 McClurg, E. L. 8497
 McCombs, S. D. 4346
 McComie, L. D. 1596
 MacConnell, J. G. 11198
 McCorkle, D. V. 10318
 McCormick, S. J. 5446
 McCorquodale, D. B. 251, 2482, 7404
 McCoy, C. W. 4777, 6839, 8644, 10720
 McCoy, E. D. 11377
 McCoy, J. R. 9358
 McCrea, K. D. 3616, 5571, 6134, 7568, 9501, 10516
 McCready, S. 9254
 McCrohan, C. R. 950, 4568
 McCulloch, C. E. 3550, 7782
 McCutchen, B. F. 11767
 McCutcheon, G. S. 10802
 McDaniel, B. 2975, 8784, 10645
 McDaniel, C. A. 11348-11349
 McDonald, G. 2361, 5608
 McDonald, I. C. 2127, 9170
 Macdonald, J. A. 10845
 MacDonald, J. F. 10451
 MacDonald, J. R. 10491
 McDonald, L. 10210
 Macdonald, P. J. 9557
 McDonough, L. M. 994, 4310, 7719, 7736, 8529
 McDougall, K. W. 3190, 10124
 McDowell, J. M. 7151
 McE. Kevan, D. K. 3247
 Macedo, C. A. 807, 2962
 Macedo, E. C. 9548
 Macêdo, M. V. de 835
 Macedo, N. 4605, 8448
 Macedop, N. 8982
 Macek, J. 7518
 Macek, T. 992
 McEvey, S. F. 3438, 11703
 McEwen, J. 1441
 McFarland, B. L. 8029
 McFarland, J. D. 7554
 McFarlane, J. A. 3056
 McFarlane, J. E. 3270, 7379
 McFarlane, M. J. 5522
 Macfarlane, R. G. 3312
 McGarvey, B. D. 2379
 McCaughey, W. H. 7101, 9023, 11875, 11915
 McGawley, E. C. 1658, 1661
 McGeachie, W. J. 926
 McGinley, R. J. 8195
 McGovern, T. P. 2213, 5725
 McGovern, W. L. 4924
 Macgowan, I. 9979
 MacGown, M. W. 1337
 McGrail, L. 12018
 McGregor, M. D. 1788
 McGuire, J. A. 10809
 McGuire, M. R. 3466, 6504, 7158
 McGuire, T. 8026
 McGuire, T. R. 4129, 11690, 11930
 Machado, L. A. 4855
 Machado, V. L. L. 6525, 6753
 Machado Botelho, P. S. 4605
 MacHardy, W. E. 1560
 Machuca, J. R. 4512, 8663
 Maciel, G. A. 8515
 McInnis, D. O. 564, 582, 3211, 4423, 10436, 11359
 McIntosh, A. H. 1952, 4122, 4140
 Mack, S. 11113
 Mack, T. P. 2667, 4648, 5823-5824, 6897, 9812, 9816, 10810
 Mackauer, M. 2137, 2451, 6566, 7282, 8393, 10962
 Mackay, D. 2053
 MacKay, E. E. 10393
 MacKay, I. F. 7723
 Mackay, M. E. 2283
 MacKay, P. A. 1533, 3741, 9283, 9637, 10652
 MacKay, W. P. 1869, 2412, 3487, 10393, 11420
 Mackay-Wood, R. J. 1463
 McKee, M. J. 11344
 McKenna, T. 8714
 McKenzie, H. 7594
 Mackenzie, J. R. 597
 MacKenzie, K. E. 2534
 Mackenzie, N. 8761
 Mackey, B. 8278
 Mackey, B. E. 1912, 7117
 McKibben, G. H. 4923, 5879, 7865
 McKillup, S. C. 6016
 McKimm, R. J. 10937
 McKinion, J. M. 5547
 McKinlay, R. G. 509, 1434, 5598, 8739
 McKinnon, L. K. 2612
 McLain, D. K. 6386, 11505
 McLaren, D. G. 7835
 McLaren, E. A. 2029
 McLaren, G. F. 5719
 McLaughlin, J. L. 9038
 McLaughlin, J. R. 8627, 11725
 MacLean, B. K. 10520
 MacLean, D. B. 10520
 McLean, D. L. 6293
 McLean, J. A. 8860, 8884-8885, 9963, 10935, 11822
 MacLellan, C. R. 2738
 MacLeod, D. A. 7941
 MacLeod, L. S. 844, 11857, 11860, 11865-11868
 McLeod, P. 3873
 MacMahon, J. A. 2332, 4493
 McManus, M. L. 1834, 4009, 10013
 McMasters, J. H. 10344
 McMullen, L. H. 3004, 7918
 McMullen, R. D. 5732, 8587, 8590
 McMurtry, J. A. 1833, 2876, 3806-3807, 4521, 5763, 9646, 11452
 McNally, P. S. 8571, 11626
 McNamara, D. G. 1819
 McNeal, C. D. 5839
 MacNeil, J. D. 1562
 McNeil, J. N. 34, 75, 261, 6424, 6536, 9292, 9400, 9863
 McNeill, M. R. 9641
 McNew, R. W. 2609, 7695, 10655
 MacPhail, R. C. 5196
 McPhee, J. R. 7923
 McPherson, J. E. 3410, 7444, 9331, 9339
 McPherson, R. M. 11726
 Macqueen, A. 11596
 McQuillan, P. B. 10641
 MacRae, E. A. 7991
 McRobert, S. P. 1055
 Macrory, R. 7270
 McVay, J. R. 7719
 McVey, D. V. 4618
 Madan, Y. P. 1207, 4429
 Madanlar, N. 3151
 Madatyan, A. V. 2904
 Madden, J. L. 10965
 Madden, L. V. 11528
 Maddens, K. 4236
 Maddison, P. A. 4384
 Maddox, J. V. 1834, 4009, 4654, 5614, 11939
 Madec, L. 5533
 Madeira, V. M. C. 2051
 Madel, G. 1261, 1612, 1640
 Mademba-Sy, F. 8645
 Madge, D. S. 2579
 Madge, R. B. 3234
 Mädlar, U. 9227
 Madojemu, E. 9842
 Madoulet, C. 10081
 Madsen, S. 9982
 Madziara-Borusiewicz, K. 8880
 Maeda, M. 452, 3100, 5706
 Maeda, S. 3108, 3590, 7232, 11080
 Maelfait, J. P. 4693, 11455
 Maes, J. M. 5235, 9454
 Maeta, Y. 2584
 Maetô, K. 1811-1812
 Maeto, K. 6880
 Magadum, S. B. 8400
 Magakyan, Yu. A. 3587
 Magalhães, B. P. 3878, 9785, 10056, 11921
 Magalit, H. 2875
 Magallona, E. D. 6727, 7207
 Mage, C. 6623
 Magnano, A. R. 3246
 Magnano, L. 3246
 Magnin, M. 7335
 Magro Enriquez, R. 6218
 Magyari, I. 11830
 Mahabir Singh 2892, 3784, 11639, 11644
 Mahadevan, N. R. 668, 7848, 8719-8720
 Mahal, M. S. 2810, 6873, 6904, 9777
 Mahapatra, S. K. 10894
 Mahar, J. 3411
 Maharaj, S. B. 8005
 Mahdi, M. T. 6043
 Mahdihassan, S. 287, 297, 11494
 Mahendru, V. K. 6614
 Maher, A. 8264
 Maher, T. F. 10911, 10925
 Maheshwari, B. K. 4606, 4610
 Mahillon, J. 7122, 8975
 Mahla, J. C. 6690
 Mahmood, K. 5779
 Mahmood, N. 441
 Mahmood, T. 1985, 5779, 10713
 Mahmood, T. Z. 2404, 3469
 Mahmoud, E. A. 898
 Mahmoud, S. N. 6612
 Mahon, W. D. 959, 3184
 Mahr, D. L. 4502
 Mahran, A. A. 1064
 Mahunka, S. 7966
 Maier, C. T. 1330, 4024, 9657, 10705
 Maiga, S. D. 6744
 Mailloux, G. 6786, 6929, 9651
 Mailloux, M. 8605
 Maini, S. 556-557
 Maiorella, B. 165
 Mairena, H. 4594
 Maiti, P. K. 4545
 Maitland Emmet, A. 1003
 Maiolini, C. 5773
 Maizel, E. B. 1060
 Majer, J. D. 5382
 Majerus, M. 7266
 Majerus, M. E. N. 1854
 Majewski, M. S. 5216, 10149
 Majhi, B. 8078
 Majima, K. 11080
 Majumdar, A. C. 290
 Majumder, S. K. 62, 6038, 7093, 10631, 11375
 Majunke, C. 7932
 Makanjuola, W. A. 7087
 Makarenko, G. N. 11460
 Makarova, L. A. 1166, 3122, 8463
 Makeeva, E. N. 2292
 Makela, M. E. 6975
 Makhmoor, H. D. 4824, 8683, 10772
 Makhotkin, A. G. 1457
 Maki, A. 686-687
 Maki, D. L. 1269, 1272, 7499
 Maki, T. 770, 7105
 Makihara, H. 4395
 Makings, P. 2231
 Makkouk, K. M. 5596, 5802, 5804, 7790
 Maksimov, V. N. 8310
 Maksimova, S. L. 3541
 Maksimova, T. I. 11414
 Maksimovsky, L. F. 1116
 Maksymov, J. K. 1909, 10988
 Makundi, R. H. 10030
 Mal, B. 7659
 Malagodi, M. H. 6859
 Malagon, J. 4356
 Malais, M. S. 7893
 Malamud, J. G. 6325
 Malaret, L. 5513
 Malavasi, A. 2142
 Malavolta, C. 557, 8565, 9660
 Malayba, M. T. 7635
 Malcolm, S. B. 247, 331, 6664, 9495
 Malczewska, M. 8257, 11970
 Maldonado, J. F. M. 4796
 Malek, M. A. 1899, 7106
 Malhotra, I. 7995, 10775
 Malhotra, K. C. 974
 Mali, A. R. 1725, 2007
 Mali, V. R. 10795
 Malik, B. A. 6050, 6052
 Malik, M. R. 6052
 Malik, N. A. 10865
 Malik, R. S. 8673, 10762
 Malik, S. S. 4606, 4610
 Malik, V. S. 2852-2853, 2888-2889
 Malinoski, M. K. 8901
 Malinowski, H. 3174, 5167
 Maliński, E. 4063
 Maliverney, C. 3293
 Malkomes, H. P. 4202
 Mallawani, M. A. 4068
 Mallett, J. 11969
 Mallick, R. N. 11238
 Mallikarjunaiyah, H. 1782
 Mallikarjunappa, S. 3979, 8723
 Malloch, D. 8988, 8999
 Maloiy, G. M. O. 2330
 Malone, C. C. 9210
 Malone, L. A. 893, 11602
 Maloney, S. E. 2064
 Malosse, C. 1084, 3959, 5467
 Malov, N. A. 502
 Maltschi, D. 5606
 Malta, A. W. O. 8756
 Maltais, J. 8840
 Mal'tseva, N. I. 7834
 Malukas, E. Z. 3401
 Mamaev, B. M. 8908, 10197
 Mamane, H. 1088
 Mambiri, A. M. 9871
 Mamiya, Y. 1943, 11069
 Manalo, P. L. 5175
 Mancini, G. 11635
 Manczak, M. 7373
 Mandal, S. K. 10114
 Mandava, N. B. 2074, 8161
 Mane, U. H. 5209
 Mang, K. Q. 10076
 Mangan, R. L. 11592
 Manganelli, G. 5541
 Mangel, M. 269, 2506, 3009, 7091
 Manglitz, G. R. 2681, 11463
 Mangold, H. K. 4309
 Mangold, J. R. 3576
 Mangstl, A. 10559
 Manguin, S. 9401
 Manheim, O. 6668
 Mani, K. 2030
 Mani, M. 239, 6624, 6789-6790, 6849, 10726
 Manino, A. 6523
 Manisegaran, S. 8390
 Manjunath, K. L. 10727
 Manjunatha, M. 4675, 4853, 11584
 Mankin, R. W. 6312
 Maňkowská, B. 4040
 Manly, B. 10210

Manly, C. J. 8083
Mann, G. S. 2819
Mann, J. S. 6267, 9188
Mann, S. G. 11097
Mannesmann, R. 9464
Manning, J. S. 1949
Manohar, S. K. 7657
Manoharan, V. 668, 8719-8720
Manoukas, A. G. 9362
Manousis, T. 889
Mansito, P. 9125
Mansour, F. 4711, 4747, 11707
Mansour, M. A. 11222
Mansour, S. 3186
Mantey, K. D. 2745
Manti, I. 11581
Manville, J. F. 3004
Mao, H. 10259
Mao, L. 1490
Mar, E. K. 8240
Marais, E. 6788
Maraite, H. 1702
Marano, L. 2713
Marboutie, G. 9697
Marchal-Ségault, D. 5190
Marchand, B. 5104
Marchand, C. R. 4566, 10497
Marchesini, E. 5715, 9665
Marchetti, L. 8807
Marchetti, S. 11540
Marchini, L. C. 5869
Marcillaud, C. 4955, 10877
Marcinkowski, A. 9085
Marco, M. P. 8928
Marcos, J. M. 1176
Marcos-García, M. A. 6547
Marcotte, P. 1928
Marcus, W. L. 8174
Mardones, M. C. 1452
Marec, F. 4215, 6065, 9282
Marei, A. S. 2041
Marek, J. 5963
Margaritis, A. 1929
Margolies, D. C. 11532, 11912, 11948
Margulies, L. 11959
Mari, U. L. 8479
Mariani, S. 1693
Mariau, D. 1541
Mariconi, F. A. M. 3464, 3817, 3931, 6838, 6957
Marie, R. L. S. 7360
Marin, A. 2882
Marinari, P. E. 4519
Marini, M. 1131, 7321
Marini Bettolo, G. B. 1411
Marion-Poll, F. 10596
Markalas, S. 795, 1795
Markham, P. G. 1703
Markham, R. H. 7276
Markkula, M. 6123
Markó, V. 8265
Markov, E. 1974
Markov, V. A. 3041
Marković, M. 11642
Marks, R. J. 306-307
Markwick, N. 6817
Marling, E. 3015
Marohasy, J. J. 9490
Marois, J. J. 1383
Marolt, R. S. 4194
Maroni, G. 51
Marotta, E. 4311
Marotta, S. 9285
Maróy, P. 11332
Maroy, P. 100
Marozzi, E. 2713
Marquardt, K. 2570, 6639, 8191
Marquardt, T. E. 8146
Marques, I. M. R. 8531
Marquis, R. J. 7911, 8826
Marrewijk, W. J. A. van 42, 1062, 1276, 2407
Marrone, P. G. 4105
Marsden, M. A. 7926
Marsh, N. B. 6386
Marsh, P. M. 3921, 7248
Marshall, D. B. 8603
Marshall, J. 2289
Marshall, J. A. 7255
Marshall, L. D. 8525, 9292
Marston, A. 9047
Marston, N. L. 3545
Martelli, G. P. 3088
Marti, O. G. 11075
Martin, A. 8219
Martin, A. P. 6617, 8405
Martin, A. W. 114, 319
Martin, C. R. 11875
Martin, D. 10180, 10182-10183
Martin, G. H. G. 4546
Martin, J. 8276, 11127
Martin, J. A. 5368
Martin, J. H. 6626
Martin, J. L. 1944, 4706
Martin, J. M. 6971
Martin, M. 11355
Martin, M. M. 2233, 2284-2285, 5939
Martin, N. A. 725, 5913, 10844, 11785
Martin, P. A. 7213
Martin, R. C. 4642
Martin, S. J. 120, 9439
Martin, T. 2111
Martin, T. J. 299
Martin, W. R., Jr. 7863, 7873
Martín Cano, J. 1196
Martin-Piera, F. 8316
Martinat, P. J. 9937
Martinelli, N. M. 8793, 9894-9895
Martínez, A. 7430
Martínez, A. P. 3866
Martínez, D. 1580
Martínez, H. 2157
Martínez, J. P. 4383
Martínez, M. 4785
Martínez, M. A. 8138
Martínez, M. de los Angeles 8794, 9834
Martínez, N. B. de 4771, 4798, 5765, 9734
Martínez, R. Carabias 9033
Martínez, T. 7345
Martínez de Carvallio, S. 9785
Martínez Falero, E. 7906
Martínez-Martínez, L. 9398
Martínez Rodríguez, J. 1579
Martinho, M. R. 8691, 9780
Martini, R. 9235
Martino, E. di 2766, 8641
Martins, D. S. 4954
Martins, J. C. 6960
Martins, R. P. 1389, 5021
Martins, U. R. 1035
Martins Dias, M. 5953
Martinsen, G. D. 5433
Martinson, T. E. 8752
Marullo, R. 2747, 7609, 8621, 9719, 11448
Marumo, S. 7176
Marumoto, Y. 3590
Maruniak, J. E. 884, 4095
Marutani, M. 8433
Maruyama, K. 7372
Marwaha, K. K. 411, 414, 416, 5615, 11413, 11552-11553
Marwat, G. N. K. 4611
Marwat, N. K. 5655
März, U. 1990, 6676
Marziano, F. 3097
Marzo, L. de 3251, 10004
Marzouk, M. A. H. 980
Masaki, T. 2271
Mascagni, A. 5567
Maschwitz, U. 3483, 9519
Masetti, M. 2171
Mashchenko, N. V. 3263
Masih, R. 5588
Maskel, S. M. 892, 4094
Masler, E. P. 11339
Masner, L. 5491, 9437
Masnyk, M. 2226
Masó i Planas, A. 1822, 1825, 1827
Mason, A. 199
Mason, D. J. 11156
Mason, G. A. 6160
Mason, J. 5543
Mason, J. C. 10287
Mason, L. J. 2779, 5368, 6413, 11300, 11302
Mason, P. 3360
Mason, P. G. 8767
Mason, R. R. 3988
Mason, R. T. 3296
Mason, W. R. M. 265
Masoodi, M. A. 1561, 4737, 4763, 6871, 8547, 8579, 8601, 9671
Mass, F. B., III 1435
Masseron, A. 2092
Masson, C. 1275, 2488, 10596
Masson, L. 1928, 9002, 11081
Massor, A. 397
Massover, W. H. 114
Massutti de Almeida, L. 1036
Masters, W. M. 8354
Mastro, V. 7948
Mastro, V. C. 3814
Masud, S. M. 9873
Masuda, T. 3100, 5706, 10075, 10628
Masuda, Y. 8066
Masui, A. 941, 10110
Masumoto, K. 9141
Masurier, A. D. le 8384
Mata, O. C. 1579
Matcham, E. J. 11010
Matchanov, N. M. 7686
Mate, S. N. 5673
Mateo, A. 9216
Materna, T. 6259
Matha, V. 5306, 6065
Mathai, S. 5219
Mathapathi, S. B. 5436
Mathavan, S. 4104
Mathela, C. S. 6675
Mather-Mihaich, E. 10137
Mathew, G. 1799, 8890, 10979-10980
Mathew, R. 2043
Mathur, B. N. 5099
Mathur, K. C. 3731
Mathur, L. M. L. 3674-3675
Mathur, R. 4187
Mathur, Y. K. 110, 12021
Matile-Ferrero, D. 1831, 2136
Matin, M. A. 513
Matioli, C. H. 5096
Matioli, J. C. 245, 2971, 3670, 5096, 8336, 9695, 9718
Matocq, A. 4042
Matolin, S. 2286
Matoušek, M. 12008
Matsubara, F. 3595
Matsuda, M. 3709
Matsuda, S. 7772
Matsuda, T. 932, 988
Matsui, M. 6481
Matsui, T. 5527, 9192, 10538
Matsuka, M. 5457
Matsumoto, K. E. 3144
Matsumoto, S. 8149
Matsumoto, T. 3098-3099, 3595
Matsumoto, Y. 5853, 5855
Matsumura, F. 4184, 10113
Matsunaga, T. 1888
Matsuno, K. 7396
Matsuno, T. 10260, 10262
Matsuo, N. 6482
Matsuura, M. 11263
Matsuzaki, S. 6350
Matsyuk, V. A. 4727
Mattern, P. J. 4618
Matthews, C. H. 7489
Matthews, E. G. 8198
Mattice, J. D. 2040
Mattoni, R. H. T. 10524
Mattson, W. J. 2284, 3973, 6010, 8854
Matuhashi, M. 3704
Matuszczyk, I. 8879
Matz, G. 6365, 10390
Mau, R. F. L. 3866, 5746
Mauffette, Y. 8886
Mauldin, J. K. 4548, 11480
Maule, A. 2064
Maule, A. J. 1703
Mauléon, H. 1922, 8027
Mauleon, H. 8645
Maurer, R. 5465, 5499
Mäurer, S. 8447
Mauri, G. 5965
Mauricio, R. 9916
Mauries, J. P. 1156
Maurin, G. 953, 8079
Mauritius, Mauritius Sugar Industry Research Institute 364, 11278
Maurya, R. P. 616, 2827
Mautz, D. 10429
Mavlayanova, R. D. 7686
Mavragani-Tsipidou, P. 7389
Mavraganis, V. G. 577
Mavrinskaya, L. F. 11303
Mavromoustakis, G. A. 6236
Maw, H. E. L. 9054
Mawlood, N. A. 2326
May, M. L. 2265, 6298, 9305
May, P. D. 6696
May, R. M. 6405, 10423
Mayer, D. 3963
Mayer, D. F. 480
Mayer, E. T. 6768
Mayer, F. L., Jr. 7194
Mayer, M. S. 6312, 10276
Mayer, R. T. 9263-9264
Mayes, R. L. 3761
Maynard, G. V. 8418
Maynard, M. S. 570, 864, 11196-11197
Mayo, I. 5274, 8212
Mayo, Z. B. 11545
Maywald, G. F. 10560
Mazagaonkar, A. R. 2642
Mazanec, Z. 3029, 10966
Mazeroll, A. I. 5433
Mazina, V. V. 545
Mazokhin-Porshnyakov, G. A. 11366
Mazomenos, B. E. 408
Mazón, L. I. 2549, 3599, 7549
Mazur, G. D. 6610
Mazur, S. 4979, 5055
Mazzini, M. 2256, 5326, 9201-9202
Mazzullo, M. 4192, 6189
Mbata, G. N. 7086
Meade, T. 2496
Meads, M. J. 7018
Meating, J. H. 7954
Meckenstock, D. H. 8516
Medarde, M. 4417
Medda, A. K. 8399
Medda, P. K. 3746, 7706
Medin, J. A. 11108
Medina, A. 9266
Medina, M. 2199
Medina-Gaud, S. 9595
Medovar, A. M. 2067
Medrano, F. G. 8513, 11576
Medvedev, G. S. 1010
Medvedeva, G. V. 546
Meehan, M. 5676
Meeker, J. R. 10929
Meer, R. K. vander 197, 1227, 2415-2416, 4449, 9394
Meeusen, R. L. 3138
Meg Singh 6919
Megenasa, T. 409, 3140
Megharaj, M. 3203, 6726, 11214, 12003
Meguro, T. 2021
Mehendale, H. M. 971
Meher, H. C. 586
Mehetre, S. S. 5673
Mehéz, M. 4208
Mehl, O. 11264
Mehlhorn, H. 8023
Mehlman, M. A. 8174
Mehndiratta, P. D. 2666
Mehr, Z. A. 11165
Mehra, B. P. 2813
Mehra, R. B. 11730
Mehrotra, A. K. 10413
Mehrotra, B. D. 970

- Mehrotra, K. N. 7233, 10322
 Mehrotra, M. K. 6168
 Mehrotra, P. 7797, 7810, 11719
 Mehrotra, R. S. 8050
 Mehta, D. M. 10782
 Mehta, P. K. 6390
 Mehta, S. C. 6947, 11762
 Mehto, D. N. 669, 2851, 5833
 Meier-Davis, S. 7488
 Meighen, E. A. 8225
 Meijden, E. van der 10512
 Meijer, J. 5681
 Meijs, A. W. H. M. 5180
 Meinke, L. J. 11545
 Meinodas, K. 6271
 Meinwald, J. 246, 800, 3337, 7560
 Meisenbacher, C. 8914
 Meisner, J. 10601
 Meister, M. 4322
 Meister, M. F. 3334
 Mekonnen, G. W. 8109
 Melamed-Madjar, V. 10601
 Melbourne, S. 11857, 11860
 Meleady, K. 10129
 Meliá, A. 9717
 Melikian, G. 1234
 Melkani, A. B. 6675
 Melkonyan, T. M. 720
 Mellado, B. 4978
 Mellaert, H. van 4120, 5114, 6131, 9023
 Mellanby, K. 6124
 Mellini, E. 3502
 Mel'nikova, E. A. 793
 Melo, A. B. P. de 4607-4608
 Meloche, F. 9642
 Meloni, M. 9749
 Melton, B. 7687-7688
 Melzer, R. 9679
 Melzer, R. R. 6277
 Memmel, N. A. 11328
 Menassieu, P. 1846
 Mendel, M. J. 508, 8332, 9107
 Mendel, Z. 4974, 5045, 9938, 10916-10917
 Mendes, A. C. B. 759, 4949
 Mendes, A. C. de B. 1748-1749
 Méndez, J. Hernández 9033
 Méndez-Montiel, J. T. 7009
 Mendoza, A. H. de 8639
 Meneely, G. A. 969
 Meneses, C. R. 8507
 Meneses, R. 429
 Menezes, D. 8750
 Menezes, M. 7258
 Menezes Porto, O. de 1586
 Meng, X. L. 3087
 Menge, J. L. 8649, 10728
 Mengesha, M. H. 10202
 Mingle, D. C. 8099
 Menke, A. S. 11
 Menke, S. D. 3301
 Menken, S. B. J. 1830
 Menn, J. J. 993, 6126, 11170
 Menn, R. le 7716
 Menou, G. 11099
 Menout, G. S. 3669
 Menzel, C. M. 9726
 Menzer, R. E. 10211
 Merbecks, H. 1546
 Meré, C. 2908
 Meredith, C. P. 1549
 Meredith, P. 4602
 Merian, E. 9130
 Merle, P. du 10991, 11842
 Merritt, C. R. 2112
 Merritt, R. W. 9211
 Merryweather, A. T. 6106
 Mersch-Sundermann, V. 2055
 Mersie, W. 6919
 Mertens, P. P. C. 11102
 Merz, F. 3892, 9783
 Merzheevskaya, O. I. 10201
 Mesa, N. 11745
 Mescheloff, E. 1321, 1760
 Meshkov, Yu. I. 5500
 Messager, J. L. 1522
 Messaoudi, J. 5984
 Messer, A. C. 800
 Messias, C. L. 5105
 Messina, F. J. 4352, 6420, 7738
 Messing, R. H. 3538, 3772
 Mestre, J. 7279
 Mészáros, Z. 8311, 8801
 Metcalf, R. L. 2636, 6866, 7788, 11543
 Metcalf, Z. P. 7250
 Metcalfe, N. B. 1076
 Metelerkamp, H. R. R. 1600
 Metge, G. 10501
 Metreau, C. 5988
 Metsue, M. 9770
 Mettling, C. 11353
 Metwali, S. H. 194
 Metzler, E. H. 146
 Meulen, T. van der 7886, 10714
 Meurant, V. N. 3827
 Meusburger, K. E. 1999
 Mew, T. W. 7616, 9601
 Mexzon, R. G. 4479
 Mey, W. 559, 2740, 4760
 Meyer, J. L. 8649, 10728
 Meyer, J. R. 8555
 Meyer, L. 7603
 Meyer, M. 2343
 Meyer, M. de 4491, 8203
 Meyer, M. K. P. S. 161, 1191, 9525, 9667, 9674, 9926, 10011-10012, 11829
 Meyer, R. W. 7431
 Meyer-Peters, H. 2481
 Meyhöfer, E. 7410
 Meylan, G. 5774
 Mező, G. 11631
 Mezzanotte, R. 5349
 Miah, R. U. 11701
 Micard, D. 7326
 Michael, A. D. 2129
 Michaille, J. J. 1353
 Michalski, J. 4037
 Michalski, Z. 8747
 Michaud, D. 10314
 Michaud, J. P. 5270
 Michaud, O. 8588
 Michaud, O. D. 11646
 Michaux, B. 7558, 8420
 Michel, B. 7880, 8782
 Michelen, A. 3318
 Michelena Saval, J. M. 5549, 7506
 Michell, R. E. 6127
 Michels, G. J., Jr. 5593
 Michiels, F. 8975
 Micinski, S. 8775
 Miclaus, N. 6820
 Miczulski, B. 5069, 7589, 8466, 8543
 Middlesworth, F. L. van 5294
 Midgley, J. M. 3312, 10302
 Midtgaard, F. 1192, 6264
 Midtling, J. E. 9079
 Miedema, K. 9278
 Mielke, O. H. H. 5253-5254
 Mienis, H. K. 6622
 Mier, T. 6066
 Miętowski, R. 11533
 Miguel, E. San. 4297
 Mihajlovic, L. 8539
 Mihm, J. A. 2624
 Mikami, N. 932, 988
 Mikhailyan, G. V. 2744
 Mikhailov, K. G. 4433
 Mikhailova, N. A. 378, 1437
 Mikhnevich, G. S. 3593
 Mikhnevich, O. Ch. 2335, 2516
 Mikil, E. 7529
 Mikkelsen, T. N. 5809
 Mikkola, K. 3544
 Miklasz, S. D. 9195
 Mikolajczak, K. L. 7189
 Mikuriya, H. 9587
 Milam, M. R. 7855
 Milani, N. 3536, 11542
 Milat, M. L. 1084
 Milcheva, M. 1974
 Miles, P. W. 3277
 Milford, G. F. J. 10766
 Milián, H. O. 3950
 Millar, J. G. 857
 Miller, A. 1613
 Miller, C. A. 10766
 Miller, C. E. 965
 Miller, D. 75, 995, 7687
 Miller, D. J. 7689
 Miller, D. R. 9977
 Miller, G. E. 5998, 6003, 10007-10008
 Miller, G. T. 8962, 8965, 11638
 Miller, I. L. 1376
 Miller, J. C. 1402, 3998, 8866, 9634
 Miller, J. D. 873, 7075
 Miller, J. R. 715-716, 719, 4896, 5856, 6882, 8754
 Miller, J. S. 3829, 7322
 Miller, J. W. 7690
 Miller, J. Y. 9155
 Miller, K. K. 11821
 Miller, L. 1345
 Miller, L. A. 8560
 Miller, L. D. 9155
 Miller, L. K. 2177, 4118-4119, 4136, 5120, 6091, 8015
 Miller, L. R. 10482
 Miller, M. E. 1718
 Miller, P. C. H. 11133
 Miller, R. H. 10554
 Miller, S. G. 915
 Miller, W. E. 799, 4001
 Miller, W. L. 10154
 Millot, C. 8941
 Millot, P. 4847
 Mills, G. D., Jr. 7245
 Mills, J. D. 950
 Mills, J. L. 11953
 Mills, N. J. 6000, 7044, 9975
 Mills, R. B. 8829, 10040
 Miloševski, N. 11742
 Milsom, N. F. 9538
 Milstead, B. 7708
 Milstead, J. E. 3997
 Mimmochi, T. 1379
 Minard, R. 5906
 Minaytlo, V. A. 179
 Minckley, W. L. 7500
 Mineau, P. 9098
 Minero, C. 6140
 Ming, C. 11382
 Mingo, E. 4467, 7320
 Minhas, J. S. 7815
 Mini, A. 1539, 6291
 Mink, F. L. 2063
 Minkenberg, O. P. J. M. 6943, 9849-9850
 Minks, A. K. 4233, 7278
 Minobe, M. 933
 Minoranskii, V. A. 2860, 5835
 Minton, N. A. 8113
 Minyailo, A. K. 532, 6822
 Minyatlo, V. A. 532, 6822
 Miranda, S. B. 1462
 Miranda, S. H. G. 859
 Mirchev, P. 5981, 8822, 11064
 Mirchi, R. 9282
 Mirica, A. I. 3771
 Mirković, R. 11742
 Mironov, V. 2378
 Mironov, V. G. 2376
 Mirre, C. 3357
 Mirzaliev, B. T. 11754
 Mirzalieva, Kh. R. 11754
 Mirzayans, H. 3778
 Mirzoyan, M. A. 2050, 11991
 Miscellaneous Publication of the National Institute of Agro-Environmental Sciences 1013
 Mischan, M. M. 569
 Mischler, M. 4722
 Mishchenko, L. L. 3224
 Mishra, A. K. 399
 Mishra, B. 3165
 Mishra, B. K. 8951
 Mishra, D. P. 6708
 Mishra, M. B. 11775
 Mishra, N. C. 11572
 Mishra, P. 8951
 Mishra, R. K. 3298, 11704
 Mishra, S. 1308
 Mishra, S. C. 2565
 Mishra, S. S. 6720
 Mishra, U. S. 5611
 Miski, M. 1991
 Misonne, J. F. 11740
 Misra, B. C. 11572
 Misra, H. P. 1485
 Misra, I. 5780
 Misra, L. N. 6222
 Misra, M. P. 6734
 Misra, P. N. 584
 Misra, R. P. 5586
 Misra, S. S. 1689, 1691, 2872, 3900, 5846, 7822, 8743, 11743
 Misra, U. K. 11996-11997
 Misra, U. S. 601, 2793, 5830, 10024
 Misra, V. 8141
 Mitchell, R. 11270
 Mitchell, E. R. 925, 2473, 8554, 10872
 Mitchell, F. L. 7582
 Mitchell, J. 6599
 Mitchell, J. A. 2032
 Mitchell, M. J. 1858, 5333
 Mitchell, R. 6420
 Mitomi, M. 9709
 Mitra, D. K. 10850
 Mitra, J. 2044
 Mitrofanov, V. I. 2723, 2727, 4728, 5724
 Mitsuhashi, J. 9433
 Mitsuhashi, W. 5741
 Mitsui, T. 9253
 Mitsunaga, H. 8066
 Mittal, R. K. 7916
 Mittal, S. 7094
 Mittal, V. P. 2662, 3937
 Mittaz, C. 8575
 Mittler, T. E. 1147-1148, 6444, 8517
 Miura, K. 2532, 7769-7773
 Miura, T. 7768-7773
 Mivelaz, M. B. 10370
 Miwa, A. 1285
 Miyadai, T. 9253
 Miyahara, Y. 9747
 Miyaji, K. 221
 Miyajima, S. 292
 Miyake, N. 10995
 Miyamoto, J. 988
 Miyamoto, S. 1810
 Miyata, M. 3728
 Miyata, T. 2796, 7179, 8086, 10106
 Miyatake, T. 2295
 Miyazaki, A. 7176
 Miyazaki, H. 9587
 Miyazaki, M. 6807, 9526
 Mizen, K. A. 483
 Mizrahi, A. 8165
 Mizrokhii, L. J. 9277
 Mizuki, E. 1955
 Mizukoshi, T. 3790, 5563-5564
 Mizutani, A. 940, 6156
 Mkrtchyan, A. E. 9069
 Mkrtchyan, L. P. 2539-2541
 Mnzava, N. A. 7575-7576
 Mo, T. K. 9977
 Moalif, A. S. 3226
 Moanas, A. M. 7786
 Moanas, A. M. H. 6577
 Moar, W. J. 11081, 11936
 Moawed, S. M. 8041
 Mochizuki, A. 5853, 5855
 Mochizuki, M. 10882
 Mochizuki, N. 10436
 Mockford, E. L. 8290
 Mockford, M. L. 9162
 Moccquard, J. P. 10085
 Modarres Awal, M. 175
 Möder, D. 10832
 Moed, A. 7018
 Moeliono, B. M. 1380
 Moens, P. B. 5346
 Moens, R. 357, 6627

Moffett, J. O. 1272, 1274, 7498
Moffett, M. W. 8325
Moffitt, H. R. 1901, 2745, 4743, 7992, 11894
Mohamad, R. B. 1480
Mohamed, M. G. 735
Mohamed, M. I. 3585
Mohamed, O. 2048
Mohamed, O. S. A. 9885
Mohamed Ali, M. I. 1799
Mohammad, A. B. 11645
Mohammad, A. K. M. 7078
Mohammad, A. M. 4181
Mohammad, M. A. 627, 5736, 6844, 6990
Mohammad, N. A. 7731
Mohammad Irshad 11027
Mohan, B. R. 9604
Mohan, D. 6208
Mohan, G. S. 3223
Mohan, K. S. 9648, 11095
Mohan, R. 8796
Mohan, S. 2393
Mohanadas, K. 11004
Mohanasundaram, M. 717, 1592, 2144, 2774, 2965, 10458, 10666, 10738, 11827
Mohandas, K. 8890, 10979
Mohandas, N. 497, 5697, 8178, 11759
Mohandoss, A. 6855
Mohanraj, D. 1475, 1477, 2645
Mohapatra, H. 8951, 11882
Mohapatra, H. K. 11732
Mohd. Aspollah Sukari 9041
Mohideen, M. B. 6183
Mohite, P. B. 4827
Möhl, B. 7472
Moholkar, P. R. 4827
Mohos, J. 4208
Mohyuddin, A. I. 225
Moiseenkov, A. M. 11310-11311
Moizuddin, M. 2968
Mojica, H. B. 134, 217, 404, 630, 632, 1458
Mokhles, A. 1034, 5276
Moklyak, V. Ya. 2858
Moku, M. 4082-4083
Mola, L. M. 7392
Moldenke, A. R. 4025
Mole, S. 6225
Moleas, T. 7742
Molina, R. 4719
Molina, V. 11378
Molinari, F. 8628
Møller, H. 9172-9173
Molnár, I. 8487
Molnár, J. 4739, 8312, 8591, 8595-8596
Molnár, J. G. 8569
Molyneux, D. E. 1434, 5598
Molyneux, D. H. 10053
Molyneux, R. J. 10976
Momen, F. M. 1029, 2577, 7683
Momen, H. 897
Mon, T. R. 3144
Monache, F. D. 7577
Monaco, R. 3805
Monadirishvili, L. Sh. 5738
Monagheddu, M. 9664
Monastyrskii, A. L. 2401
Moncecchi, A. G. 1328
Monclus, M. 5353
Mondal, K. A. M. S. H. 1905
Monderewicz, K. M. 9145
Mondragón, I. 7096
Monen, F. M. 2788
Monga, K. 3537
Monge, J. P. 8004
Monk, B. E. 7470
Monke, E. J. 8138
Monkman, K. D. 4976
Monreal, A. R. 7453, 10783
Monsarrat, P. 11933
Monserrat, V. J. 7507, 11384, 11394
Monsigny, M. 8972
Montà, L. D. 2734
Montagne, A. 635-638
Montagne A., A. 9788-9789
Monteagudo, S. 10878-10880
Monteiro, R. F. 835
Monteiro Galvão, M. 4954
Monteiro Neves, A. 151
Montenarie, A. M. 8667
Montero, M. 11208
Monteys, V. S. 1373, 4397
Montiel, A. 8650
Montllor, C. B. 4815, 5550, 8517, 10893
Montoya, R. 8239
Montuenga, L. M. 9190
Moody, B. H. 4047
Moon, M. J. 22, 9196
Moore, A. 5185
Moore, A. A. 6161
Moore, C. J. 4307
Moore, D. 563, 906, 3309, 3759, 4145, 6777, 6987
Moore, K. E. B. 7956
Moore, K. M. 2959-2961, 3028
Moore, N. F. 889
Moore, N. W. 9327
Moore, R. 5809
Moore, R. F. 6981
Moore, S. 7332
Moore, T. E. 4327
Moore, G. D. 7178
Moorhouse, E. R. 6113
Moorhouse, J. E. 7413
Moorthy, P. N. K. 2816
Mora, P. 3579, 5516
Moraal, L. G. 3020, 4000, 4430, 5917, 8903
Moraes, G. J. de 1833, 2876, 5749, 5763, 6942, 7276, 9784
Moraes, L. A. H. de 1586
Morakote, R. 435
Morales, C. F. 11295
Morales, F. 8696
Morales, F. J. 2148
Morales Dominguez, B. 1579
Morales L., C. 2308
Moralev, S. N. 1060
Morallo-Rejesus, B. 454
Moran, N. A. 2149, 10522
Moran, S. 10495
Moran, V. C. 7556
Moran Lemir, A. H. 7555
Morand, P. 2628, 4228, 8373
Moratoria, M. 6971
Moratorio, M. S. 6582
Moraza, M. L. 5967
Mordechai, S. 488
Mordechii, S. 10847
Mordkovich, Ya. B. 850, 8934
Mordue, A. J. 5692
More, G. D. 5189, 5224
Moreau, B. 2090
Moreau, R. 1121, 3276, 4301, 5293, 11301
Moreira, G. R. P. 8748
Moreira, L. A. 6960
Moreira, M. 9562
Morel, L. 4455
Morell Zandalinas, M. J. 7678
Morellet, N. 1351
Morelli, J. J. 164
Moreno, A. V. 1197, 2103
Moreno, D. S. 7117, 9028
Moreno, J. 4468, 4791
Moreno, P. 8639
Moreno, R. Z. 4802
Moreno, V. 8690
Moretti, F. C. 9715
Morey, A. V. 4781
Morey, J. L. 10937
Morgan, A. J. 9483
Morgan, A. V. 6557
Morgan, C. E. 4501
Morgan, C. R. 1858
Morgan, D. 8471
Morgan, D. L. 1806
Morgan, D. R. 11565
Morgan, E. D. 1234, 2074, 3440, 4220, 7474, 8161, 10159, 10408-10409
Morgan, H. M. 10634
Morgan, M. J. 7212, 11397
Morgan, T. D. 1124, 2194, 3297
Morgante, J. S. 2157
Mori, H. 3595, 11496
Mori, K. 73-74, 1089, 1119, 1895, 2212, 2227, 6020, 6781, 7076, 7131, 7242, 8907, 8909, 10279, 11496
Mori, P. 1304, 8051
Mori, T. 2021
Moriarty, D. J. 1287
Moriguchi, K. 2008
Morimoto, K. 1044, 4277
Morimoto, N. 9944, 10249
Moriniere, M. 2380
Morinobu, S. 2022
Morishita, M. 4907, 10770, 10851
Morison, J. I. L. 10349
Morista, M. 10657
Morita, T. 1888
Moritz, G. 6259
Moritz, R. F. A. 10429
Moriya, N. 9175
Moriya, S. 7022, 7446, 9672
Mörner, J. 8071
Morozov, N. V. 10151
Morozill, W. L. 1525
Morris, C. 6484
Morris, C. E. 5545
Morris, G. S. 6217
Morris, M. G. 9545, 9611-9612
Morris, M. J. 11604
Morris, M. W. 2941
Morris, O. N. 1947
Morris, T. J. 1396
Morrison, M. N. 1709, 2478
Morrison, R. J. 7594
Morrison, R. K. 2509, 6802, 9432
Morrison, W. P. 6940, 9570
Morrisey, D. 4204
Morrow, B. J. 1945, 6095
Morrow, P. A. 4006, 7935, 11513
Morse, D. 8225
Morse, D. H. 6564, 9435, 10430
Morse, J. G. 5750-5751, 8643, 8649, 11163, 11974
Morse, R. A. 4499
Morsy, M. A. 3068
Morsy, M. A. A. 3067, 3069
Morthorpe, K. J. 10653
Morton, M. 4194
Morton, R. 754
Morvan, Y. 1635
Moser, J. C. 12, 1836, 4995, 5024, 6001, 9980, 10946
Moser, V. C. 5196
Moss, B. 7223
Moss, T. P. 11726
Mossakowski, D. 3511
Mossman, D. J. 937
Mostaghimi, S. 6191
Mosti, M. 556
Mostofipoor, P. 3694
Mostowska, I. 11534
Mota, D. 8636
Mota, R. 3817
Motawe, H. M. 2583
Mote, U. N. 459-460, 1495, 1500-1502, 5825, 6748, 7667-7669, 7806, 7828, 9605
Mothes-Wagner, U. 9084
Motoki, H. 7112
Motoshima, S. 4082
Motoyama, N. 2930-2931
Motta, R. 6838
Mou, Z. M. 9475
Mouchès, C. 7335
Mound, L. A. 3232, 4232, 8205, 9991
Mounzih, K. 4567
Moussavi, M. R. 434
Mousseau, T. A. 3359
Mousson, G. 1871
Moustafa, F. I. 1064, 6033
Moutray, J. B. 8176
Mowafy, L. E. 980
Mowat, D. J. 1511, 3745, 7701
Mowat, W. P. 7890
Mower, H. F. 7236
Mowry, T. M. 719, 4896
Moya, A. 11378
Moya, J. 7548
Moyal, P. 10594
Moye, H. A. 6488, 6859, 10154
Mozolevskaya, E. G. 4990
Mozos Pascual, M. 1196
Mozzone, G. 7718
Mpata, E. F. B. 10866
Mpina, G. A. 7575-7576
Mráček, Z. 4098, 6080, 6776
Mrig, K. K. 1207, 3869, 4429, 11569
Mrówczyński, M. 2803, 7777
Mrzok, H. 7183
Msazina, V. V. 11603
Muan, B. 957
Muccio, A. di 6151
Mucha, V. 5125
Mück, O. 262
Mücke, A. 10257
Muckenthaler, F. A. 7378
Mudambi, A. R. 8072
Mudd, A. 3137
Muehleisen, D. P. 11768
Mueke, J. M. 6917
Mueller, A. 11439
Mueller, A. J. 656, 1663, 8707, 9638
Mueller, L. D. 2153
Mueller, R. A. E. 666
Müer, G. 673
Muggleston, S. J. 9311
Muhamad, R. 761, 5900
Muhammad Afzal 9602
Muhammad Rafiq 9602
Muinamia, C. 6128
Muir, D. C. G. 11224
Muir, W. E. 8945, 10026
Muis, A. 9582
Mujica, M. M. 3831
Mukerji, K. G. 8164
Mukherjee, P. 4545
Mukherjee, S. N. 862, 3922
Mukherjee, N. 6836
Mukhopadhyay, A. 7741
Mukhopadhyay, A. K. 6836
Mukhopadhyay, B. 989, 2071, 4171-4172, 8702, 11176-11177
Mukhopadhyay, S. 6836, 10212
Mukunthan, N. 9527
Mukunya, D. M. 6128
Mulbry, W. W. 2005, 11183
Mulder, J. C. 7100
Mulder, P. G. 3375, 9564
Muley, D. V. 5209
Mulik, B. B. 1499
Mullitze, D. 6701
Mullainadhan, P. 6616
Mullen, G. R. 9299
Mullen, M. A. 3052
Müller, C. 9395
Müller, F. P. 4764
Müller, G. 679
Müller, H. 6644, 11511
Müller, H. E. 6613
Müller, H. J. 7599, 9010
Müller, P. 3237
Muller, P. 1753
Müller, R. 8118, 10670
Müller, T. 4341, 5415
Müller-Motzfeld, G. 7439
Mulligan, C. N. 6096
Mullin, C. A. 6489, 9550, 11161
Mulrooney, J. E. 4427, 5883, 11170
Muluk, C. 7712

- Mulyana, A. D. 7908
 Mulye, H. 7234
 Mumma, R. O. 5906, 7899, 8799
 Mummigatti, S. G. 291, 11909
 Mun, I. R. 6023
 Mündel, H. H. 7594
 Munden, S. K. 612
 Munderloh, U. G. 7146
 Mundhe, G. E. 10795
 Muneem, M. A. 11968
 Munesada, K. 7169
 Muniandy, S. 1123
 Muniappan, R. 8433, 11827
 Municio, A. M. 2201, 3283
 Muniyappa, V. 10608, 10889
 Muñoz, M. 8212, 11364, 12009
 Munroe, E. 5384
 Munsee, J. R. 7475
 Munshi Singh 5888
 Muntyan, E. M. 3553
 Münzing, K. 11035
 Muona, J. 1786
 Murad, A. M. B. 866
 Muraji, M. 10465
 Murakami, A. 10317
 Murakami, Y. 9936
 Muralleedharan, D. 5868
 Muralleedharan, N. 6988, 9488, 9903-9905
 Muralidhara 7210
 Muralidharan, C. M. 1571
 Murano, F. 5575
 Murant, A. F. 7124
 Murashevskaya, Z. S. 2804
 Murdoch, W. W. 6588
 Murdock, L. L. 8224, 10843
 Mureşan, I. 5630
 Murega, T. N. 2938
 Mureşan, F. 5629
 Murguido, C. 5548
 Murhammer, D. W. 166
 Murlidharan, C. M. 8637
 Murlis, J. 409
 Murphey, R. K. 3307, 5325
 Murphy, C. I. 4135
 Murphy, D. D. 1140, 2366, 3374
 Murphy, G. D. 6491, 9925
 Murphy, R. 5713
 Murphy, S. T. 6987
 Murphy, W. L. 6495
 Murray, D. A. H. 3923, 7747, 10597
 Murray, D. D. 11953
 Murray, D. L. 7162
 Murray, K. D. 3676, 5940, 9970
 Murray, M. G. 565, 8638
 Murray, V. S. G. 8113
 Murthy, D. K. 7668-7669
 Murthy, G. V. S. 665
 Murthy, K. R. K. 6529, 7584
 Murthy, K. S. R. K. 2849
 Murthy, M. M. K. 665, 11881
 Murthy, N. B. K. 7222, 7226, 10136
 Murthy, N. S. R. 735
 Murthy, P. S. N. 5897
 Murthy, R. V. K. 289
 Murthy, Y. M. L. 5865
 Murty, A. G. K. 4943-4945, 5084
 Murugan, V. 7807
 Muschler, M. A. 2884
 Muscroft-Taylor, K. E. 1531
 Muset, D. 3640
 Mushi, A. 3140
 Mushinsky, H. R. 226
 Mushtaq, S. 2968
 Mushtaque, M. 225
 Mussalo-Rauhamaa, H. 2018
 Mustafa, T. 5392
 Mustafa, T. M. 1828, 6842, 10366
 Mustaparata, H. 8235
 Mustaparta, H. 3295, 4329, 9982
 Mustea, D. 4645, 5606, 5629
 Mustelier, O. 8357
 Musuna, A. C. Z. 2590
 Muszynska-Pytel, M. 6356
 Mutch, J. P. 10145
 Muthu, M. 845, 7181
 Muthu, S. P. 3597
 Muthukrishnan, J. 1057, 2178, 2182, 7520, 9410
 Muthukrishnan, T. S. 1940
 Muthuswami, M. 7621, 7626
 Mutschler, M. A. 7837
 Myartseva, E. A. 2903
 Myartseva, S. N. 2514
 Myazaki, I. 4795
 Myers, C. M. 3473
 Myers, J. 757
 Myers, J. H. 1851, 10088
 Myers, L. 8381
 Myles, T. G. 2470
 Myrzin, A. S. 2646
 Nabikhanova, S. K. 2904
 Nachapong, M. 2922
 Nachman, R. J. 5337, 8243
 Nada, S. N. A. 776
 Nadeau, L. 7201
 Nadkarni, P. G. 1585
 Nadkarni, V. B. 2257
 Naem, A. 566, 2529
 Nafde, S. D. 2837
 Näff, W. 5437
 Nafstad, I. 957
 Nagabhushanam, R. 8096
 Nagai, K. 7528, 9588, 10510
 Nagai, V. 655
 Nagaich, B. B. 5841
 Nagalingam, B. 1584, 10798
 Nagamine, T. 6604, 6609
 Nagano, A. 1225
 Nagano, T. 3728
 Nagao, N. 2022
 Nagaraja, T. 7585
 Nagarajan, P. 6808
 Nagaraju, J. 1360, 2287, 6606
 Nagarkatti, S. 2701
 Nagasaka, K. 2466
 Nagasawa, H. 3331, 7372, 8262
 Nagata, J. T. 2213
 Nagata, T. 5671, 7581, 7630
 Nagata, Y. 9799, 12005
 Nagayama, T. 770, 7105
 Nagel, J. 4794, 4804
 Nagi, H. P. S. 7973
 Nagia, D. K. 7783
 Nagler, K. 9540
 Nagnan, P. 10483, 11042
 Nagpal, V. 6367
 Nagy, B. 11418
 Nagy, E. 5629
 Nagy, L. 11995
 Nahar, A. 7543
 Naicker, S. 9931
 Naidu, B. P. 3177
 Naidu, K. R. P. 3177
 Naidu, P. R. 10369
 Naidu, R. A. 7657
 Naidu, V. D. 425
 Naik, G. 5647
 Naik, R. L. 7830, 7849
 Nair, G. M. 10741
 Nair, K. K. R. 10742
 Nair, K. P. V. 9003
 Nair, K. R. 334, 9650
 Nair, K. S. S. 1798, 8890
 Nair, N. G. 1551
 Nair, R. R. 10173
 Nair, V. C. 10615
 Nair, V. S. K. 3209, 5219, 7230, 11175
 Naitam, N. R. 7666, 11585
 Naito, S. 4872
 Naito, T. 6399
 Najji, A. H. 3407
 Najjar, S. J. T. El- 6043
 Nakabayashi, T. 882
 Nakagawa, J. 7580
 Nakagawa, T. 9900
 Nakahara, L. M. 1971
 Nakahara, S. 152-153, 4964, 9165
 Nakamara, K. 8018
 Nakaminami, H. 3389
 Nakamura, E. 6296
 Nakamura, G. 9944, 10249
 Nakamura, H. 9587
 Nakamura, K. 2553, 3617, 7125, 8011
 Nakamura, N. 3704
 Nakamura, S. 4395
 Nakamura, T. 7176
 Nakamura, Y. 6020
 Nakanishi, H. 5432
 Nakanishi, K. 3104, 5335
 Nakano, O. 744, 4624, 4692, 6754, 9618
 Nakano, Y. 9779, 10271
 Nakao, H. 1606, 9779, 10271
 Nakash, J. 1544
 Nakash, Y. 4711
 Nakashima, T. 3072
 Nakasuji, F. 3692, 6404, 6750, 10465
 Nakayama, A. 8148
 Nakayama, I. 8011
 Nakayama, K. 7258
 Nakazono, Y. 6781
 Nakhla, J. M. 3064
 Nalbandy, A. V. 5849
 Nalli, L. R. 8757
 Nambiar, S. S. 6783, 10669
 Nammour, D. 4074, 7111
 Nanda, B. B. 1471
 Nandagopal, V. 667, 6692
 Nandakumar, C. 781, 8142, 11759
 Nandihalli, B. S. 11579
 Nanjappa, C. 1405
 Nannan, L. 7757
 Nannelli, R. 11632
 Nanni, B. 3097
 Nanthagopal, R. 1729
 Nanu, N. 6002
 Naoki, H. 8074
 Naomi, S. I. 23, 8214
 Naoshima, Y. 6301
 Nápole, J. R. 630
 Nápoles, J. R. 402
 Napolitano, L. M. 1055
 Nappi, A. J. 1066
 Naqvi, K. M. 755, 5889
 Naqvi, S. M. Z. 8100
 Naqvi, S. N. H. 2193
 Naranang, D. D. 2819, 6872
 Naranjo, S. E. 1951, 8484-8485, 9309
 Narasayya, K. L. 4943-4944
 Narasimhamurti, C. C. 5124
 Narayan, S. 11996-11997
 Narayana, M. L. 5795
 Narayanan, K. 1942, 9008, 10848
 Narayanasamy, P. 1465, 1468, 7593, 10609
 Narchuk, E. P. 10197
 Nardi, J. B. 2181, 9195
 Narendra Singh 11061
 Narendran, T. C. 7514, 10457
 Naresh, J. S. 2852-2853, 2888-2889, 10812
 Nargis, A. 1594, 1675
 Narita, T. 3797
 Narkhede, S. S. 4781, 5194
 Narvaez, J. 5893
 Narwaria, H. S. 10024
 Nascimento Kronka, R. 539
 Nascimento Kronka, S. do 539
 Naseerulla, M. K. 10659
 Nasef, O. B. 10856, 10858
 Nash, L. M. 7689
 Nassar, O. A. 572-573
 Nasser, M. A. K. 1745
 Natarajan, K. 3731, 6946
 Natarajan, N. 3727, 7662, 12010
 Nataraju, B. 11497
 Natawiria, D. 7908
 Natcheff, P. D. 6784
 Nath, P. 320, 3647, 5616
 Nath, S. C. 8067
 Nath, V. V. N. 3888
 Nathan, Q. 3447
 Nation, J. L. 7238, 7350
 Naton, E. 1292
 Natrajan, S. 4977
 Nault, B. A. 10360
 Nault, L. R. 3109, 6682, 10589, 11528
 Naumann, K. 6142
 Naumova, L. V. 528
 Nava Camberos, U. 133, 632
 Navarrete-Heredia, J. L. 10755
 Navarro, R. V. 5355
 Navarro, S. 11038
 Navas-Catillo, J. 182
 Navasero, R. C. 3520, 7871
 Navon, A. 11942
 Navot, N. 1711, 6056, 10846
 Nawale, R. N. 5867
 Nawar, M. S. 324, 1344, 1521, 2562-2563
 Nawrocka, B. 4649
 Nawrot, J. 4063, 4219, 4599
 Naya, Y. 3104
 Nayak, B. K. 2530, 9473, 10330
 Nayak, P. 5647
 Nayak, U. K. 3626, 3891
 Nazato, K. 1225, 1374
 Nazina, N. A. 1166
 Nderitu, J. H. 6917
 N'Diaye, S. 10646
 Neal, J. J. 1690, 7565, 11180
 Neal, J. W., Jr. 1868, 2208, 5016, 5300
 Nealis, V. G. 9768
 Neary, D. G. 836
 Nebeker, A. V. 965
 Nechiporchuk, T. S. 1677
 Nechols, J. R. 5449, 6240, 11948
 Neck, R. W. 3556
 Nectoux, M. 911
 Nedel'kina S. V. 3160
 Nedorezov, L. V. 3044
 Neece, K. C. 5168
 Needham, G. R. 2104
 Neera, P. 8453
 Neeru Singh 45, 48-49
 Nef, L. 2991
 Negasi, F. 639
 Negri, J. D. 4776
 Negron, J. F. 9555
 Nehlin, G. 3120
 Nehru, R. K. 4737, 8547, 8601
 Nei, M. 1830
 Neitman, K. 7477
 Nel, A. 2164, 3508, 4922, 11601
 Nelder, J. A. 6486
 Nelis, H. J. C. F. 4515
 Nelson, B. 2475
 Nelson, C. N. 3204
 Nelson, D. R. 2282-2283
 Nelson, E. E. 4731, 4755
 Nelson, G. H. 3982, 9149
 Nelson, J. O. 9268
 Nelson, L. J. 8395, 9942
 Nelson, M. R. 7845, 10779
 Nema, K. K. 2832, 5834, 6902, 8708
 Nemcsók, J. 2031, 11201
 Nemec, S. J. 11767
 Němec, V. 4300, 4344
 Németh, I. 8446, 12001
 Nemny, N. E. 3175
 Nemoto, H. 1488, 7619
 Nenadović, V. 2986
 Nene, Y. L. 6901
 Nenon, J. P. 2100, 4892, 5451, 5852
 Nentwig, W. 2616, 4535, 4681, 6554
 Neophytou, E. P. 7315
 Nepomnyashchaya, A. M. 2520
 Nesbit, D. J. 7503
 Neser, O. C. 3574
 Nesson, M. H. 4137
 Nesterenko, S. A. 381
 Nesterova, I. P. 6308

Netherlands, Glasshouse Crops
Research and Experiment
Station, Naaldwijk 9131

Netherlands, Nederlandse
Plantenziektenkundige Ver-
eniging 1014, 4245

Netherlands,
Plantenziektenkundige
Dienst Wageningen 3145,
4246, 7297

Neto, R. S. 5749, 6942

Neto, S. S. 6486

Netrawali, M. S. 11187

Nettles, W. C., Jr. 7873

Netyksa, E. M. 8020

Neuenschwander, P. 6934,
6937, 9842, 11746

Neuffer, G. 7709

Neuffer, U. 400

Neuhauser, H. 1248

Neumann, F. G. 10937

Neumann, U. 9697

Neumann, W. P. 5082

Neunzig, H. H. 4994, 5935

Neururer, H. 6147

Neury, G. 5704, 5707-5708

Neuvel, J. 4870, 5840, 8735

Neuvonen, S. 7033

Neves, A. Monteiro 151

Neves, B. P. das 10796

Nevo, D. 10495

New, T. R. 3, 228-229

Newell, P. F. 302, 318

Newell, W. R. 8817

Newman, C. M. 236

Newman, E. 3

Newman, T. M. 1213

Newton, A. F., Jr. 10233,
10244

Newton, A. S. 8732

Newton, A. S., Jr. 11605

Newton, C. 10256, 10258

Newton, P. J. 3814, 4788,
5752, 8647

Ng, D. 5555

Ng, N. Q. 1650, 10050

Ng, S. S. 4651, 9570

Ngoru, F. N. 5513

Ngoviwatchai, A. 1199

Nguyen, K. B. 6761, 10079

Nguyen, V. L. 5528

Nguyen-Phung, T. 1031, 6262

Nguyen Thuan Khet 10630

Ni, C. Z. 10051

Ni, H. X. 4627

Niazi, M. N. 10713

Niazi, Z. M. 5779

Nichio, A. 10538

Nicholas, A. 1886

Nicholls, M. 2224, 5304

Nichols, B. J. 9393

Nichols, D. B. R. 8537

Nichols, J. D. 8126

Nichols, J. F. A. 9630

Nichols, R. A. 3360

Nichols, S. W. 3218

Nichols, T. J. 1772

Nicholson, D. 11096

Nicholson, R. A. 3311

Nickerson, J. C. 4451

Nickle, D. A. 3577, 9160-
9161, 9463

Nicolas, G. 3153

Nicolau, C. 10081

Nicoli, G. 7785

Nicolson, S. 3302

Niculescu, E. V. 4413

Nieder, G. 3768, 9659

Niedzielski, J. 1324

Nielsen, A. P. 959, 3184

Nielsen, B. D. 7503

Nielsen, C. le R. 4522

Nielsen, D. G. 7001, 10924,
10951

Nielsen, E. S. 9119

Nielsen, G. R. 10648

Nielsen, J. K. 602, 2784, 7774

Nielsen, M. G. 202

Nielsen, S. S. 4302, 6049

Nielson, M. W. 10171

Niemälä, J. 3542-3543, 4015,
8913

Niemelä, P. 3986, 7077, 8856

Niemeyer, H. M. 10571

Nieto, J. L. 3283

Nieukerken, E. J. van 840

Nieves Aldrey, J. L. 4988,
7891

Nigg, H. N. 959, 2755, 3184,
4191

Niggli, U. 5714

Nigro, L. 4144

Niida, A. 6348

Nijjima, K. 5457

Niitsu, J. 7600

Nijhout, H. F. 10263, 11352

Nikam, P. K. 6560

Nikanorova, E. V. 1060

Niklasson, M. 1843

Nikolaeva, L. A. 3793

Nikolaeva, L. N. 2227

Nikol'skit, V. V. 2094

Nikonov, P. V. 908, 2587

Nilakhe, S. S. 4679, 4686

Niles, G. A. 1726

Nillson, C. 3850

Nilssen, A. 10003

Nilsson, C. 1615, 3847-3849,
4821

Nilsson, D. E. 7363

Nimbalkar, S. A. 2759, 2773,
3808, 4781-4782, 4786,
4932-4933, 7877

Nimbalkar, V. S. 7660-7661

Nimmo, W. B. 8144

Niraz, S. 8467

Nirmala, M. R. 6558, 6562

Nishenko, A. A. 8580

Nishibe, I. 8075

Nishida, R. 2215, 2467, 2796,
5339, 6394

Nishida, T. 11615

Nishijima, K. A. 3078

Nishijima, Y. 5777

Nishikawa, S. 4082-4083

Nishikimi, Y. 10161

Nishima, T. 770, 7105

Nishimoto, J. I. 582

Nishimoto, K. 7112

Nishina, M. S. 3078

Nishino, T. 9799

Nishio, M. 41

Nishioka, E. 2008

Nishioka, R. 8018

Nishiyama, H. 1481

Nishiyama, K. 3104, 3183

Nissen, M. S. 11093

Nissen, R. J. 1595

Nitami, T. 9928

Nitao, J. 10967

Nitao, J. K. 9056, 9501

Niwa, A. 7907

Niwa, C. G. 1866, 9976

Nix, H. 3463

Niyazov, O. D. 2903

Nizi, M. F. 8651

Njeru, E. I. 10881

Nkunika, P. O. Y. 11855

Noamani, M. K. R. 6543,
6606

Nobakht, M. 7802

Nobel, J. 8919

Noble, D. G. 9086

Noble-Nesbitt, J. 4343

Nöbrega, A. M. I. 9867

Noda, C. 9909

Noda, H. 7146, 7419, 9192

Noda, T. 5643, 8692

Noguchi, N. 7215

Nogueira Couto, R. H. 4466

Nohara, J. 6833

Nohara, K. 6828, 6832, 7768

Nohara, S. 6202-6203

Noirot, C. 5505, 9181

Nokoe, S. 2875

Nolan, R. A. 4111

Noldus, L. P. J. J. 5369, 6234,
11369

Nolen, T. 6334

Nolt, B. L. 2148

Nolting, S. P. 9809

Nomeir, A. A. 1064

Nonnecke, I. L. 2089

Noonan, M. J. 10654

Noor, N. M. S. Nik Mohd
3663

Noor, P. 1594

Noori, P. 554

Noort, S. van 11656

Noppun, V. 4831, 10106

Norambuena, H. 6109

Norby, S. W. 2181

Nordenhem, H. 5980

Nordestgaard, A. 9607

Nordin, G. L. 1853, 3984,
5003, 5025, 8042, 10068

Nordlander, G. 8873, 10920

Nordlund, D. A. 1297, 7873

Nordmeyer, H. 7219, 8136

Nordquist, P. T. 1507

Noren, S. E. 10144

Norman, J. O. 11167

Normington, S. M. 4935

Noronha, A. B. 10784

Norstog, K. J. 5941

Norstrom, R. J. 968, 9086,
11224

Norten, E. 1612

North, M. C. 308

Northcott, C. J. 3023

Norton, G. W. 3156

Norton, R. A. 9143

Norway, Norsk Entomologisk
Forenings 4243

Norwegian Journal of Agricul-
tural Sciences 6170

Norwood, W. P. 6199

Nose, T. 9192

Notani, N. K. 10065

Notario, A. 7020

Noti, M. I. 11011

Notman, P. 8124

Nott, R. 7920, 8133, 9090

Nottingham, S. 1375

Nottingham, S. F. 707-708,
4888, 9308

Nouhuys, S. van 504

Nouws, J. F. M. 8408-8409

Nova Nova, C. 4177

Novais Bastos, C. 4949

Novak, F. 1218, 5418

Novak, F. J. S. 2276

Novak, K. 5144

Novelo-Gutiérrez, R. 10755

Novikova, I. I. 3125

Novikova, S. A. 723

Novokhatka, V. G. 394

Novotný, J. 4032

Novozhilov, K. V. 1060, 7281

Nowacki, J. 6466

Nowak, B. 12002

Nowak, Z. 5441-5442

Nowakowski, E. 2298

Nowakowski, Z. 8583

Noyes, J. S. 2124, 2355, 5583,
6463-6464, 7045, 10658,
11431

Noyes, R. 5098

Nozato, K. 7562, 10343

Nozzolillo, C. 7983

Nucifora, A. 1710

Nuessly, G. S. 11511

Nuez, F. 8690

Numata, H. 2815, 6879

Numata, S. 10109

Nummelin, M. 4034

Nunes, M. V. 1054

Núñez, J. A. 11423

Núñez-Farfán, J. 10999

Nuormala, N. 9824

Nuorteva, P. 5054

Nuraddinov, R. I. 522

Nuriel, E. 3909

Nurmuratov, T. N. 545

Nuss, K. J. 5590

Nuthan, D. 3961

Nuti, M. P. 10481

Nuzzaci, G. 3315

Nwana, I. E. 2700

Nwanze, K. F. 420, 2641

Nwufo, M. I. 11886

Nyamasyo, G. H. N. 5514

Nyambo, B. T. 750-751, 3936

Nyffeler, M. 374, 1516-1517,
2906, 5890, 8777

Nyhus, K. A. 2633, 2640,
7605

Nylin, S. 2327

Nyrop, J. P. 2737, 5731, 7832,
8752, 11623

Nystrom, C. 5050

Nyström, S. 647

Oakes, R. D. 1788

Oakeshott, J. G. 6779, 8040,
9281

Oakley, B. R. 10066

Oakley, W. E., Jr. 4075

Oatman, E. R. 3520, 5460,
5462, 9680

Obanni, M. 7591-7592

Obara, Y. 2808

Oberhauser, K. S. 6393

Oberprieler, R. G. 2133

Obin, M. S. 1227, 6514, 9394

Obosi, L. 8033

Obregon, J. R. 428

Obrieht, C. 132

O'Brien, C. 7557

O'Brien, C. W. 9, 6638, 7552,
7559, 9497

O'Brien, L. B. 3296, 9164

O'Brien, M. F. 9427

O'Brien, M. T. 8617

O'Brien, P. J. 4916

O'Brochta, D. A. 11356

Obrycki, J. J. 6240, 6530,
11445

Ocaña, J. 5367

Ochi, M. 6301

Ochiai, M. 7437

Ochieng, S. A. 10164

Ochieng-Odero, J. P. R. 4421,
8211, 8222

Ochoa, H. 762

Ochoa, R. 576, 802, 1713,
4594, 4713, 5788, 7739

Ochoa Milán, H. 3950

O'Connor, B. M. 1243, 9157

O'Connor, J. D. 98

Oda, G. 8030

Odebiyi, J. A. 3879, 6933

Odell, G. 7535

Odell, T. M. 9972, 11443

Odendaal, F. J. 6628, 7409

Odeyemi, O. 10123

Odhambo, R. C. 6745

Odindo, M. O. 6745

Odinokov, V. N. 6309, 11310-
11311

Odiyo, P. 3140

O'Donnell, D. J. 2137

O'Dowd, D. J. 7909, 8877,
9504, 10396

Oe, A. 2815

Oechel, W. C. 8886

Oeda, K. 7125, 8011, 8018

Oehlke, J. 3434

Oehlschlager, A. C. 4056,
7238, 7366, 8153, 9207

Oertli, J. J. 5291

Oetting, R. D. 4274, 4968,
8813

Ofuya, T. 3061

Ofuya, T. I. 6051, 9794,
10048

Ofuya, T. L. 10029

Ogada, T. A. 7198

Ogalllo, L. J. 10788

O'Gara, B. A. 6329, 11317

Ogata, M. 2021, 7215

Ogawa, S. 10109

Ogawa, Y. 9586, 9799

Oghiakhe, S. 6886

Ogierman, L. 7172

Ogihara, K. 7169

Ognyanov, I. 4219

Ognyanov, I. V. 5579

Ogoche, J. I. J. 74

Ögür, A. F. 1736

Ogura, N. 8028, 11069

Ogurtsov, K. S. 10695

Oh, S. G. 1370

Ohba, K. 940

- Ohba, M. 1950, 5135, 6094, 7135, 11923
 Ohhashi, T. 5909
 Ohira, Y. 3802, 7725
 Ohishi, A. 5909
 Ohkawa, H. 7125, 8011, 8018
 Ohki, S. T. 5859
 Ohkubo, N. 9705
 Ohkubo, T. 7907
 Ohm, H. W. 1435, 7591-7592
 Ohmart, C. P. 5026, 5958, 10993
 Ohnesorge, B. 1736
 Ohnishi, E. 1115, 3332
 Ohno, N. 6482
 Ohno, S. 4078-4079
 O'Hop, J. R., Jr. 4165
 Ohsaki, N. 2697, 2753, 3845, 9760
 Ohsawa, K. 9237, 10116
 Ohsawa, S. 7630
 Ohta, H. 1090, 5222
 Ohtaki, T. 10310, 11496
 Ohtsubo, T. 10107
 Ohtsuka, T. 940
 Ohyan, M. 3595
 Oi, D. H. 5746, 7720, 9791
 Oishi, K. 6399-6401
 Okada, I. 1286
 Okada, M. 6079
 Okada, N. 10267
 Okada, T. 4832, 10238
 Okafor, F. C. 2035
 Okajima, A. 6358, 8255-8256
 Okamoto, H. 9709, 9974
 Okamoto, T. 3394, 9094
 O'Keefe, L. E. 2678, 4843, 5805, 7792, 9792
 Økland, B. 4393
 Okoampah, N. D. 9854
 Okon, I. 11746
 Okopnyi N. S. 1716
 Okrah, E. A. 4587
 Oksman, P. 4063
 Oku, T. 3802
 Okuda, H. 7821
 Okuda, K. 7927
 Okuda, M. 10310
 Okuda, M. S. 2452
 Okuda, T. 6743
 Okumura, M. 3394
 Okuyama, S. 5370-5371, 7895
 Okwakol, M. J. N. 1365, 5523
 Olagbemiro, T. O. 4551
 Olajos, E. J. 8174
 Olano, I. de 1176
 Olasantan, F. O. 7767
 Olckers, T. 2568, 3606
 Oldfield, B. P. 3465
 Oldfield, G. N. 11901
 Olesen, J. E. 3143
 Oliberius, J. 9066
 Olien, C. R. 11535
 Olifir, V. N. 3555
 Oliva, G. 5960
 Oliva, O. S. 4561
 Oliveira, A. M. de 4962
 Oliveira, C. A. V. 4901
 Oliveira, D. A. 4795
 Oliveira, G. M. F. 1047
 Oliveira, J. V. 9616
 Oliveira, L. J. 5623
 Oliver, J. E. 2208
 Oliver, J. H. Jr. 8533
 Oliver, M. K. 2474
 Oliver, P. J. 4746
 Oliveria, F. L. 7949
 Ol'khovskaya-Burkova, A. K. 10574
 Olkowski, W. 11111
 Ollier, S. 8942
 Olmi, M. 11450
 Olmo, O. A. del 8984
 Olofsson, E. 3014, 4030, 5006, 5078
 Oloo, G. W. 6712, 6745
 Oloo, W. 2875
 Olorode, O. 2405
 Olosson, E. 4997
 Oloumi-Sadeghi, H. 4699, 5618
 Olsen, S. 3610
 Olson, M. H. 467, 470
 Olson, W. A. 6848
 Olson, W. H. 6801, 8577
 Olsson, R. 7569
 Olszak, R. W. 8611
 Olvera, O. 7722
 Oman, P. W. 10171
 Omar, A. E. 3207-3208
 Omar, E. E. 1917, 3064
 Omara, Sh. M. 2175
 Omata, K. 7522
 Ombaka, J. H. 9902
 Ombir 7813, 9756
 Ombir Singh 672
 Omelyuta, V. P. 2552, 6916
 Omole, M. M. 4947
 Omoy, T. R. 3907
 Oms, M. T. 7173
 Omule, S. A. Y. 10910
 Omura, T. 875
 Ōnal, G. 7171
 Öncüer, C. 2758
 O'Neill, R. J. 2637
 O'Neill, K. M. 10346
 O'Neill, R. J. 5818
 O'Neill, S. L. 5380
 O'Neill, K. M. 8283
 Ong, K. H. 5248, 7775
 Onken, A. B. 1506
 Ono, K. 1950
 Ono, M. 10057
 Ono, S. 1503-1504
 Ono, T. 2870, 7349
 Ono, Y. 3394, 3737
 Onoyama, K. 9378
 Onstad, D. W. 5614, 8034, 11939
 Onuma, Y. 9466
 Oøgaard, L. 6098
 Ooi, B. G. 4119
 Ooi, P. A. C. 328
 Oortgiesen, M. 3187
 Oosthuizen, J. H. 5757
 Opazo, L. 2578
 Opell, B. D. 10371
 Openä, R. T. 10203
 Opp, S. B. 494, 6834
 Oppenheim, J. D. 3091
 Oramas, D. 1593
 Orange, N. 4121
 Oraz, M. J. 4672, 9593
 Orchard, I. 6347
 Ördögh, G. 9922
 O'Reilly, D. R. 2177
 Oreshkin, V. N. 6485
 Organisation Européenne et Méditerranéenne pour la Protection des Plantes 3121
 Oriakasa, C. 9221
 Orive, M. E. 3457
 Orlinski, A. D. 549
 Orloff, S. B. 8791
 Orlov, B. N. 2402
 Orlov, V. M. 11438
 Orlovskaya, E. V. 8992
 Orona, E. 2241-2242
 Orphanides, G. M. 1589
 Orr, D. B. 4152, 6896
 Ortega, G. 11395
 Ortel, J. 4523
 Ortho Books 7252
 Ortiz, A. 5296
 Ortiz, A. A. 10067
 Ortiz, N. 5296
 Osakabe, M. 623
 Osanai, M. 2259, 2263, 2536
 Osawa, N. 3803
 Osborne, D. R. 811
 Osborne, L. S. 7000
 Osborne, P. 509
 Osborne, R. H. 3299
 Osbrink, W. L. A. 2528
 Oschek, W. 10900
 Osegueda, L. M. 8192
 Osella, G. 8847, 9343, 11387
 Oseto, C. Y. 4909, 4913, 10255
 O'Shea, M. 1114
 Oshie, K. 7125, 8011, 8018
 Oshiki, T. 10313
 Osipov, I. N. 4990
 Osir, E. O. 9242
 Osman, A. A. 777
 Osman, F. H. 7174
 Osman, K. S. A. 2277
 Osman, M. Z. 10768
 Osmelak, J. A. 2710
 Osorio, M. 1797
 Ost, W. 11155
 Ostaff, D. P. 1771
 Ostanova, M. M. 2927
 Ostby, J. 5198
 Osti, M. 5351
 Ostlie, K. R. 10586
 Ostrofsky, W. D. 7925
 Ostrovskii, D. N. 8119
 Osuna, E. V. 5140
 Osuna, J. A. 9548
 Otake, A. 7022
 Otazo, A. 8247
 Otero, J. 4622
 Otero, J. C. 4859, 6764, 6890
 Othman, M. A. S. 2041
 Othman, M. H. 2790
 Otieno, W. A. 6745
 Otis, G. W. 1273, 6574
 O'Toole, C. 6993
 Otsuki, A. 5217
 Ott, H. J. 1818
 Otte, D. 9371, 11419
 Ottea, J. A. 94
 Otter, C. J. den 6303, 6803
 Ottesen, P. 4391
 Otto, D. 935, 4323
 Otto, E. 51
 Otvaga, I. S. 9070
 Otvos, I. S. 6001, 7917, 8863
 Ou, L. T. 11216
 Ou-Yang, S. C. 4894, 10339
 Ouden, H. den 3899
 Oudman, L. 6372-6373
 Umarou, I. 900
 Ouyang, Y. L. 2510
 Ouye, M. T. 3079, 11891-11892
 Ouzts, J. D. 8714
 Ovcharov, D. 8822-8823
 Ovchinnikova, O. G. 10195
 Overgaard, S. M. 1536
 Overhulser, D. L. 1776
 Overman, J. L. 2624
 Overmeer, W. P. J. 4515, 10437
 Overton, R. P. 11793
 Owen, A. R. G. 5379
 Owen, D. F. 785, 6656, 8808, 10325-10326
 Owen, J. 10471
 Owen, J. A. 3070
 Owen, R. E. 5379
 Owens, J. C. 8332
 Owens, J. M. 7256
 Owens, M. 10137
 Oyama, N. 3708-3709
 Oyarti, L. 9560
 Oyeyele, S. 2573
 Oyeyele, S. O. 9494
 Ozaki, K. 7179
 Ozaslan, D. 5797
 Ozaslan, M. 5797
 Ozawa, T. 5909
 Özgür, A. F. 2910
 Ozino, O. I. 2604, 3672
 Pablo, J. de 9349
 Pace, R. 9450
 Pacheco, A. B. 4906
 Pacheco, D. Y. 8887
 Pacheco, J. L. 6356
 Pacheco Díaz, N. 8984
 Pacheco León, R. 4911
 Pacheco Sant'Ana, E. 4666
 Pack, A. S. 8396
 Packer, J. E. 7991
 Packman, L. C. 9225
 Padgham, D. E. 448
 Padhi, G. 1472
 Padilla, S. 8174
 Paes Bueno, V. H. 2971
 Paes Bueno, V. H. H. 5683
 Paesen, G. 1218, 3326, 5418
 Pagani, M. 11021
 Page, H. M. 1230
 Page, M. 1845, 8395, 9942
 Page, R. E., Jr. 1268, 2104, 4475, 4528, 11454
 Page, W. W. 3140
 Pagliano, G. 2131
 Pagnocca, F. C. 11425
 Pålsson, A. M. B. 10155
 Pai, H. S. 8648
 Paine, T. D. 8901, 8914
 Pair, S. D. 2932, 7608
 Paiva, E. 9547
 Paiva, F. de A. 1656
 Paiva Castro de A. Camargo, L. M. 4795
 Pajak, G. A. 6251
 Pajares, J. A. 5051, 6268
 Pajni, H. R. 1841, 3362, 4332, 5266, 6053-6054, 7059, 7324, 7557, 11871, 11884-11885
 Pajunen, T. 4015, 8913
 Pak, G. A. 6549, 11447
 Pakaluk, J. 8895
 Pakarinen, E. 3986
 Pal, R. 11727
 Pal, R. N. 7685
 Pal, S. 430, 3696
 Palacios, J. M. 5274
 Palagina, O. V. 11628
 Palanichamy, S. 6208, 8349, 10268
 Palenzuela, I. 8426
 Palermo-Neto, J. 8093
 Palet, F. 5703
 Paliwal, R. 7218
 Palladini, L. A. 9679
 Palli, S. R. 101
 Pallini Filho, A. 8718
 Pallut, W. 910
 Palma, M. F. M. 6742
 Palmer, A. 4967
 Palmer, B. 825
 Palmer, J. M. 8325, 9991
 Palmer, J. O. 4372
 Palmer, M. A. 5386
 Palmer, W. A. 1390-1391, 5557
 Palmieri, G. 7609
 Palmqvist, G. 4409
 Palomeque, T. 5426, 11326
 Pałosz, T. 6868
 Palotás, M. 4208
 Palukaitis, P. 1444
 Palumbo, J. C. 8779
 Pan, M. H. 9475
 Pan, M. L. 7331, 8907
 Pan, R. Y. 3101
 Pan, W. Y. 3978
 Panconesi, A. 2980
 Pancorbo, M. A. M. de 3599
 Panda, A. R. 11572
 Panda, N. 1485
 Pande, Y. D. 6387, 11709
 Pandey, A. K. 4198
 Pandey, K. 8120
 Pandey, K. C. 3328, 3739, 5611, 7659
 Pandey, N. D. 45, 48, 614, 855, 12021
 Pandey, R. 110
 Pandey, R. K. 6388
 Pandey, R. M. 8158
 Pandey, R. S. 44, 49, 963, 11992
 Pandey, S. 938, 6102
 Pandey, S. K. 2892, 6388
 Pandey, U. K. 2014
 Pandian, T. J. 185, 1057, 2178
 Pandit, N. C. 8768
 Pandita, P. N. 7180
 Pando, F. J. Q. 1458
 Pandolfo, F. M. 11636
 Pandya, H. V. 432, 11573
 Pang, A. S. D. 11947
 Pang, Y. 6078
 Panigrahy, C. B. 5347
 Panopoulos, N. J. 8029
 Panov, A. A. 2515, 4286
 Pant, A. K. 6675

Pant, J. C. 2237, 11410, 11877
Pant, N. C. 7976
Pant, R. 52
Pant, S. C. 5206
Pantaleoni, R. A. 580, 3500
Pantenius, C. U. 3054
Pantke, M. 8155
Pantoja, A. 9595-9596, 9857-9858
Panwar, V. P. S. 415, 11554
Paoletti, M. G. 5408, 10963
Paoli, M. de. 7968
Paolini, M. 6188
Paonam, M. S. 3837
Pap, L. 8125, 11983
Papacek, D. F. 7747, 7755
Papáček, M. 2260
Papadopolou-Mourkidou, E. 9696
Papaj, D. R. 494, 2312, 4741, 6805, 6834, 10722
Paparatti, B. 8850
Papeschi, A. G. 7392
Papierok, B. 5122
Papillon, M. 11336
Papp, J. 265, 1320, 2508, 5476
Papp, L. 1537, 5232, 7831, 9057, 9663, 11751
Papua New Guinea, Papua New Guinea Oil Palm Research Association 9134
Paradise, C. J. 10443
Paramenter, R. R. 4493
Parameswaran, S. 4920
Parasharya, B. M. 8765, 10059
Parasuraman, S. 7643
Pardini, R. S. 43, 1063
Pareek, B. L. 6947, 11705, 11762
Parenti, P. 5288, 5312
Parentoni Martins, R. 5021
Parezan, P. 6996
Pari, P. 8565, 9660
Parihar, N. S. 3856
Parihar, S. B. S. 2867
Paripurna, K. A. 169, 11405
Paris, J. 235
Parish, W. E. 7103
Parisot, D. 11085
Park, B. S. 880-881, 10064
Park, C. D. 2347
Park, C. G. 3747, 8275
Park, C. I. 8295-8296
Park, I. S. 1705
Park, J. S. 1473
Park, K. B. 11538
Park, K. T. 5047, 10359
Park, K. Y. 11557
Park, P. K. 1370
Park, S. U. 11557
Park, Y. S. 10036
Parker, B. L. 7023, 8741
Parker, F. E. 1551
Parker, K. A. 6617
Parker, R. J. 5091-5093
Parker, S. J. 10959
Parker, S. W. 7318-7319
Parker, T. M. 8105
Parkes, R. A. 9316
Parkinson, C. L. 8460
Parkman, P. 4966, 6649, 9739
Parks, N. J. 6980, 7867
Parks, P. 8103
Parlar, H. 8118
Parma, D. 3996
Parmar, B. S. 7170
Parmenter, C. A. 2331, 8277
Parmenter, R. R. 2331, 8277
Parmeter, J. R., Jr. 10945
Parr, A. D. 11232
Parra, A. 5860
Parra, J. R. P. 4607-4608, 4899, 10548
Parrella, M. P. 5911-5912, 7003, 7893, 7900, 10083
Parrott, F. 8436
Parrott, W. L. 4427, 4926, 5879, 5883, 7855, 7865, 11170
Parry, M. 1591, 11647
Parry, R. H. 6915
Parsad, D. 2782
Parsai, S. K. 6881, 8727
Parsons, P. A. 5376, 8287
Parthasarathy, T. N. 11968
Partridge, L. 1153, 8282, 10341-10342
Partsvaniya, M. Sh. 567
Parveen, B. 1899, 7106
Parvizi, R. 684
Pasalu, I. C. 11464, 11566
Pascual, F. 8398
Pascual, M. M. 1196
Pascual, N. 8928
Pasek, J. E. 3003
Pasha, K. 7543
Pasha, N. 2236
Pashanasi, B. 8922
Pashley, D. P. 5368
Pašić, M. 10500
Pašol, P. 4408
Pasqualini, E. 557
Pasquet, A. 237
Pass, G. 4316
Passera, L. 201, 9385-9388, 9390-9391, 11426
Passoa, S. 3613
Pasteels, J. M. 2422, 6300, 6437, 7487, 10416
Pasteur, N. 7335
Pasti, M. B. 10481
Pastukhov, V. M. 11414
Pate, M. J. 1964
Patel, A. A. 11765
Patel, A. G. 218-219
Patel, B. H. 1571, 8637, 8722
Patel, B. M. 6488
Patel, C. B. 5471, 5766
Patel, C. C. 7883
Patel, D. B. 2837
Patel, G. M. 11583, 11588
Patel, I. S. 476-477
Patel, J. A. 2837
Patel, J. I. 10782
Patel, J. P. 2837
Patel, M. B. 5471
Patel, M. M. 3137
Patel, P. K. 7815
Patel, R. C. 218-219, 8765
Patel, R. S. 2837
Patel, V. N. 2795, 3841, 4919
Patel, Z. P. 1883, 2662, 5471
Paternotte, E. 10671, 10692-10693
Paterson, I. C. 6073
Paterson, R. R. M. 4183, 10165
Patetta, A. 6523
Pathak, A. K. 5578
Pathak, J. P. N. 4342
Pathak, P. H. 4185, 8221
Pathak, S. C. 8932
Pathak, V. N. 11202
Patidar, G. L. 11568
Patil, A. K. 3834
Patil, B. P. 7844
Patil, B. V. 11579
Patil, C. B. 7656
Patil, C. S. 1914, 5825, 6607, 9474, 11087
Patil, G. M. 10490
Patil, J. D. 8688
Patil, N. S. 10795
Patil, P. T. 3834
Patil, R. B. 7655
Patil, R. S. 7653, 9590
Patil, S. P. 7653, 7760, 9590
Patnaik, H. P. 11732
Patnaik, N. C. 1485
Patnaik, S. C. 5344, 5347, 8321
Patočka, J. 3225, 3266, 5251, 5385, 6285
Patourel, G. N. J. le 6033
Patourel G. le 4950
Patrick, B. H. 4378, 8065
Patrinou-Georgoula, M. 76
Patruale, M. T. G. 1144
Päts, P. 130, 6492
Patterson, F. L. 1435, 7591-7592
Patterson, G. B. 8849
Patton, G. W. 8128
Paul, A. V. N. 11451, 11467, 11975
Paul, H. G. 3988
Paulenz, H. 2059
Paulini, A. E. 4954
Paulus, H. F. 6277, 6992
Pavenstädt-Grupp, I. 11065
Pavis, C. 10285
Pavlinov, I. J. 1890
Pavloff, A. M. 2914, 3940, 5882, 6982, 8775, 10861
Pavlov, A. V. 2027
Pavlov, I. F. 377
Pavuk, D. M. 11630
Pawar, A. D. 1591, 3821, 3891, 4158, 6529, 6734, 6810, 6812, 6970, 7584-7585, 7654, 8387, 8431, 8514, 8659, 9682, 10626, 11433, 11647
Pawar, C. S. 660, 2391, 3868, 11590
Pawar, D. B. 7828
Pawar, S. N. 4932-4933
Pawar, V. M. 7805
Pawlizki, K. H. 8134
Payet, R. 11010
Payne, C. 8160
Payne, C. C. 1966, 4239, 6088, 8046, 11102
Payne, J. A. 4725, 5718, 7719, 8634
Payne, J. M. 8459
Payne, N. 8115
Payne, P. A. 8728
Payne, T. L. 65, 8874, 11825, 11844
Peacock, J. M. 4339
Peacock, J. W. 2352, 6313, 7964, 10764
Peadar, R. N. 7691
Peakin, G. 202
Pearce, M. J. 8396
Pearce, P. A. 9098, 10139
Pearce, R. S. 706
Pearl, D. K. 4474
Pearl, R. 8279-8281
Pearson, A. C. 9635, 9643, 11500
Pearson, D. 3093
Pearson, D. L. 266, 2315
Pearson, G. A. 8555
Pearson, K. G. 1100, 3316, 3476, 6297, 8253, 9370
Pearson, M. N. 4115
Pearson, R. C. 9118
Pecher, S. 621
Pechimuthu, S. M. 4104
Peck, K. E. 6356
Pecora, P. 4586
Pecsenye, K. 865
Pedersen, J. 7104
Pedersen, J. R. 8943, 10039, 10041
Pedersen, L. E. K. 8090, 11963
Pedgley, D. E. 3140, 10806
Pedigo, L. P. 5406, 7699, 8494, 9633
Pedley, S. 11102
Pedro, J. 182
Pedrocchi-Renault, C. 2535
Pedrocchi-Rius, V. 2535
Pedrosa Haji, F. N. 4899, 4901
Pedrosa-Macedo, J. H. 4986
Peeters, C. 2426
Peeters, C. P. 1232
Peferoen, M. 8975
Pegoraro, R. A. 11720
Pegus, J. E. 11716
Pehlivan, E. 2145, 8208
Pehrson, J. E. 2768, 8649, 9710, 10728
Pei, M. 7152
Peidra, F. 10898
Peiheng, W. 8834
Peixoto, M. J. V. V. D. 9547
Peixoto Magalhães, B. 9785
Pekkarinen, A. 6541
Pelagatti, O. 3095-3096, 6820
Peleg, B. A. 5172, 11663
Pelerents, C. 9770
Pelham-Clinton, E. C. 9736
Pelicano, A. 5946
Pelikán, J. 4394, 4683
Pelissier, D. 3669
Pelizzetti, E. 6140
Pavis, G. 7199
Pellegrino, S. 7718
Pelletier, G. 1104
Pelletier, Y. 6915, 8742
Pellizzari, F. 2543-2544
Pellmyr, O. 6665
Pemberton, R. W. 4582, 8417, 10469
Peña, A. 2227
Pena, J. 4773
Peña, J. E. 4794, 4804, 6840-6841
Pener, M. P. 1276, 2407, 7333
Penev, D. 8822
Penev, L. 2374, 4414
Peng, B. Z. 11563
Peng, C. W. 11291
Peng, H. Y. 2895
Peng, J. C. 1975
Peng, J. W. 7019
Peng, Q. 3653
Peng, S. B. 11688
Peng, X. J. 3535
Peng, Y. S. 1257, 2533
Peng, Y. S. C. 8343
Peng, Z. 3277
Peng, Z. P. 7623
Penman, D. R. 4735, 6785, 8546
Pennacchio, F. 9631, 11607
Penner, J. L. 5292
Penning de Vries, F. W. T. 444, 446, 5665
Pennington, T. H. 6279
Pentreath, V. W. 2244
Penzlin, H. 1105, 9220
Peperzak, R. M. 5223
Perales, A. 6674
Perdue, J. C. 10353
Pereguda, T. A. 3160
Pereira, A. B. 4436
Pereira, L. V. 8815
Pereira, R. M. 8982, 11925
Pereira de Oliveira, E. 1052
Pereira Käsmayer, Z. M. 5314
Pereira Silva, J. 4899
Perele, T. G. 869
Perera, E. R. 10883
Perera, G. 5532
Peres Dominguez, E. 714
Peres Filho, O. 816
Peretiatkowicz, M. 8747
Peretyat'ko, V. G. 1677
Pérez, A. 8357-8358
Pérez, M. 8426
Pérez, N. 10461
Perez, N. 66
Perez-Bendito, D. 2058
Pérez D'A, V. 4402
Pérez-Iñigo, C. 4399, 6266
Pérez López, F. J. 1179
Perez Trancon, J. 9033
Perfect, T. J. 5653
Perfilova, N. V. 6485
Perić, I. 11742
Péricart, J. 1182
Perim, S. 1700
Periquet, G. 1900, 5272
Peris, F. 10525
Perju, T. 3640
Perkins, M. V. 4307
Permadi, A. 5780
Perrault, S. D. 7211
Perrin, R. M. 1613
Perring, T. M. 4904, 7838, 11708
Perrino, P. 1650, 10050
Perry, A. S. 3063
Perry, D. E. 7073

- Perry, D. F. 5971, 7054, 8840, 8998
 Perry, J. N. 6447
 Perry, R. 10754
 Perry, T. J. 9980, 10946
 Pers, J. N. C. van der 89
 Persson, T. 5407
 Peru, L. 11042
 Perumal, P. A. 7940
 Pesarini, F. 8197
 Peschken, D. P. 8419
 Pesel, E. 2608, 10571
 Pestemer, W. 7219, 11138
 Pesticides 5161
 Petcu, L. 4614
 Petek, F. 4550
 Peter, C. 732, 1619, 2701, 4659, 6533, 6782, 6862
 Peterle, T. J. 10130
 Peters, C. S. 7091
 Peters, D. 10825, 11067
 Peters, D. C. 1436, 2609, 11582
 Peters, G. 11138
 Petersen, C. E. 4595
 Petersen, H. D. 1269
 Petersen, L. B. M. 7195
 Petersen, M. K. 7774
 Petersen, N. S. 3301
 Petersen, R. C., Jr. 7195
 Peterson, A. T. 811
 Peterson, C. A. 7705
 Peterson, C. J. 4618
 Peterson, C. M. 1925, 9020
 Peterson, G. C. 8523
 Peterson, J. F. 7671
 Peterson, V. 3792
 Petintsev, A. F. 3877
 Petit, D. R. 1780
 Petit, K. E. 1780
 Petit, L. J. 1780
 Petitpierre, E. 3058, 7394
 Petkov, N. 5528
 Petracca, B. 4566
 Petrenko, V. M. 8456
 Petri, J. L. 10696
 Petrich, K. 2371
 Petrini, L. E. 5972
 Petrini, O. 5972
 Petro, E. 11995
 Petrov, N. P. 8682
 Petrov, V. M. 2844
 Petrova, V. I. 2844
 Petrova, V.; Petrov, V. 2844
 Petrushov, A. Z. 537
 Petrushova, N. I. 546
 Petrushova, N. N. 2384
 Petter, L. 11631
 Petterson, J. 412
 Pettersson, R. B. 4268
 Petz, W. 2046
 Peypelut, L. 5293
 Pfaffenberger, G. S. 3607
 Pfannenstiel, R. S. 4637
 Pfeffer, A. 2947, 5269
 Pfeifer, T. A. 4123
 Pfeiffer, D. G. 2714, 5733
 Pfister, J. A. 5599
 Pflanzenschutz 6146, 6148
 Phadanwis, B. A. 5673
 Phadke, A. D. 3934
 Phadke, K. G. 1627-1628, 3846, 5787, 5795
 Pham-Delegue, M. H. 1275, 2488, 10596
 Pham Van Luk 6062
 Phelan, P. L. 10340
 Phelps, R. J. 7202
 Philip, B. A. 4576
 Philip, G. H. 10128
 Philippines, Crop Science Society of the Philippines 11266
 Philippines, Philippine Coconut Authority, Agricultural Research Branch 8180
 Phillips, D. J. H. 9093
 Phillips, D. L. 10134
 Phillips, J. E. 6321-6323, 11321
 Phillips, J. K. 1086
 Phillips, J. P. 10314
 Phillips, J. R. 1017, 4503
 Phillips, P. A. 3770
 Phillips, S. A., Jr. 4937, 10394, 10412
 Phillips, S. M. 9145
 Phillips, T. W. 7238, 10010, 10044
 Phillips, V. A. 6542
 Philogène, B. J. R. 50, 822, 2628, 4151, 4228, 7983, 8373, 8862, 10539
 Phisitkul, S. 8453
 Phokela, A. 6168
 Phytoparasitica 997-998
 Pianka, E. R. 11009
 Piątkowski, J. 6565
 Picard, K. 8468
 Picard, L. 5649
 Piccioni, P. 11184
 Pickel, C. 503-504
 Pickering, J. 2818
 Pickering, C. H. 5712, 9432
 Pickett, J. A. 305, 954, 996, 3090, 3137
 Picquot, M. 115
 Piechowski, B. 9464
 Piedade, J. R. 4802
 Piedrabuena, A. E. 5105
 Piek, T. 10433
 Pienkowski, R. L. 4966, 5356
 Pierce, A. M. 4056, 7366, 8153, 9207
 Pierce, H. D., Jr. 3007, 4056, 7238, 8153, 8587, 9207
 Pierce, N. E. 1814, 11809
 Pierce, R. C. 11229
 Pierce, S. M. 1789
 Piergiorganni, A. R. 1650, 10050
 Pieronek, B. 7953
 Pierre, J. 4388
 Pierre, M. 3271
 Pierrot, R. 4227
 Pietra, P. 3253
 Piggot, G. J. 10634
 Pihlaja, K. 4063
 Pihlajamäki, J. 1835
 Pijnenburg, H. 8735
 Pike, K. S. 10635
 Pila, J. M. Lopez- 6182
 Pilar Hernández, del A. 2878
 Pilarska, D. 4112, 5981
 Pilenkova, I. I. 4210
 Pilgaard, A. 7901
 Pillai, G. B. 9648, 9650
 Pillai, G. K. 8722
 Pillai, K. 7031
 Pillai, M. K. K. 2066, 11218
 Pilson, D. 10333-10334
 Pimbert, M. 7095
 Pimenta, H. R. 1389
 Pimentel, D. 5173, 6445, 9015, 9015, 11230
 Pinchak, W. E. 7870
 Pinder, J. E., III 10644
 Pinedo, M. C. 7432
 Pinfiro, R. 136
 Pinnock, D. E. 6688, 11938
 Pinnock, R. D. 6342
 Pinterová, J. 4453
 Pinto, H. C. S. 5749
 Pinto, J. C. A. 4358
 Pinto, J. D. 5460, 5462
 Pionke, H. B. 6204
 Piot, J. C. 6064
 Piozzi, F. 6674
 Pipe, N. D. 6072
 Pirnipuu, M. E. 534
 Piron, P. G. M. 1610, 1682
 Pirone, T. P. 10871
 Pisaca, D. S. 4561
 Pisarska, R. 6465, 7048
 Pisarski, B. 7483, 8327, 8329
 Pis'mennaya, M. V. 5195, 7216
 Pisnya, I. V. 675, 7814
 Pistoia, A. 7524
 Pitcairn, M. J. 9640
 Pitcher, D. A. 11391
 Pitkin, B. R. 3212
 Pitkin, L. M. 2128
 Pitre, D. 8612
 Pitre, H. N. 8516, 9884, 10803
 Pittara, I. S. 329, 10508
 Pivnick, K. A. 9758, 9775
 Piwnica-Worms, H. 4135
 Pizzol, J. 7397
 Pla, A. 2025
 Plaisted, R. L. 5844
 Planas, A. M. 1822, 1825, 1827
 Plapp, F. W., Jr. 2921, 8778, 11767-11768, 11976, 11978
 Plaskota, E. 1704
 Plateaux, L. 10410
 Platen, R. 4203
 Platia, G. 2350
 Platner, G. R. 5460, 9680
 Platnick, N. I. 2101
 Plattner, R. D. 8233
 Plauborg, F. 3143
 Plaza Capel, R. J. 986
 Pleshanov, A. S. 1809
 Pliego, G. 4746
 Plimmer, J. R. 10952
 Pljushtch, I. G. 3634
 Plohl, M. 1139
 Plonka, P. 8880
 Plotnikova, S. I. 9222
 Plumb, R. T. 1441, 3089, 11899
 Pluta, J. 4053
 Poddar, M. K. 3192
 Podgwaite, J. D. 7959, 11824
 Podoler, H. 3811, 5045, 9938
 Podratzki, B. 6479
 Poehling, H. M. 1432, 1635, 2608
 Poinar, G. O., Jr. 8323, 8979-8980, 11066
 Poinot-Balaguer, N. 6438, 7014
 Poitout, S. 2309
 Pojananu Wong, S. 10611
 Pokarżevskij, A. D. 5377
 Pokharkar, D. S. 7830
 Pokhilton, S. V. 1677
 Pokorný, M. 4453
 Pokozil, I. T. 506
 Poland, U. H. 5233
 Poland, Warsaw Agricultural University, SGGW-AR 8181, 11275
 Polans, N. O. 6646
 Polaszek, A. 6552
 Polek, B. 4169
 Polesny, F. 3562, 9035
 Polgár, L. 8125
 Polhemus, D. A. 814, 830, 1864
 Polhemus, J. T. 830
 Polis, G. A. 5446
 Polivanova, E. N. 2166
 Polizu, A. 3195
 Polk, D. 8604
 Pollack, J. K. 4194
 Pollard, E. 6471, 9327
 Pollard, G. V. 5150
 Pollard, S. D. 11441
 Pollini, A. 6804, 6823, 10818
 Pollock, D. A. 2392
 Pollock, G. B. 200, 3488
 Polo Diez, L. M. 4177
 Polonsky, J. 996
 Polunin, E. V. 11311
 Pomeroy, D. E. 5515
 Pometto, A. L. 10481
 Ponder, B. M. 2707
 Ponel, P. 2348
 Poneleit, C. G. 5095
 Ponge, J. F. 1694
 Ponomarenko, L. I. 3897
 Ponomareva, E. A. 381
 Pons, X. 389
 Ponsen, M. B. 9179
 Pontalti, M. 11640
 Pontius, J. S. 5403
 Poole, N. J. 6105
 Pooler, P. D. 9627
 Pope, R. D. 2
 Popescu, M. A. 4381
 Popeskov, D. 911
 Pophaly, D. J. 414, 11553, 11568
 Popham, T. W. 4936
 Popiel, I. 11073
 Popov, A. V. 3319, 9296, 11260
 Popov, C. 4614
 Popov, D. 1974
 Popov, E. E. 8934
 Popov, G. B. 7277, 7300
 Popov, L. A. 170
 Popov, N. A. 257, 1278, 3494, 3552, 6115, 6120-6121
 Popov, S. Ya. 588
 Popova, I. V. 11510
 Popova, L. G. 869
 Popovic, R. 11401
 Popow, G. 7260
 Popp, M. P. 9978, 10044
 Poppy, G. M. 1160, 7369
 Porcelli, F. 3251, 6996
 Porcheron, P. 2380, 11336
 Porri, C. 962
 Porshnyakov, G. A. Mazokhin-11366
 Porskamp, H. A. G. 1601
 Port, G. R. 304, 952, 10768
 Porter, A. H. 2161
 Porter, A. J. R. 10766
 Porter, C. C. 1340
 Porter, K. S. 8146
 Porter, R. P. 8952, 10803
 Porter, S. D. 2409, 2413, 2419, 5430, 6519
 Portilla, N. 8247
 Porto, O. M. 1586
 Poryadina, N. M. 3420
 Poryadneva, L. F. 3897
 Posorova, A. R. 5694
 Pospelov, S. M. 2341
 Possee, R. D. 6106, 7232, 8036, 11104
 Posso, C. E. 868, 2822
 Post, D. 11874
 Post, K. 3027
 Postalí Parra, J. R. 4899
 Posthuma, L. 10138
 Posthumus, M. A. 7794
 Poston, F. L. 1454
 Posylaeva, G. A. 1646
 Potapova, I. M. 3205
 Potenza, M. R. 8697
 Pötgens, A. 9278
 Potter, D. A. 1769, 5907, 5974, 10961, 10990, 11000
 Potting, R. P. J. 11369
 Pottinger, R. P. 11600
 Poulson, D. F. 7317
 Poulton, P. R. 1441
 Pouzat, J. 1087
 Pow, D. V. 9259
 Powch, I. G. 2496
 Powell, B. 6339
 Powell, J. 6653-6654
 Powell, J. A. 3254
 Powell, J. E. 1298-1299, 2901, 3123, 4916, 5475, 6546
 Powell, K. A. 6105, 8052
 Powell, L. E. 8173
 Powell, R. G. 3167
 Powell, R. J. 4459
 Powell, W. 10561
 Powell, Y. M. 6867
 Power, A. G. 8493
 Powers, P. J. 548
 Powers, T. O. 6383
 Pozo, E. M. del 9453, 9721, 10462
 Pozo Matínez, J. 4383
 Pozsgay, M. 1937, 8030
 Prabhu, B. R. 10162
 Prabhakar, J. D. 11192, 11935
 Prabhakar, N. 6974
 Prabhu, S. R. 5897
 Prabhu, V. K. K. 1539, 2170, 2179, 2192, 6288, 6291
 Pracros, P. 4700
 Pradas, E. G. 986
 Pradeep, A. R. 7230
 Pradeep Singh 2774

Pradel, J. 3343
Pradelles, P. 2380
Pradhan, N. K. 11203
Prado, E. 4767
Prakash, A. 1478, 3712
Prakash, R. 6385
Prakash, S. 9117
Pralavorio, M. 4847
Pralya, I. I. 4216
Pramauri, E. 6140
Prasad, B. P. 8081
Prasad, D. 643, 645, 2825, 2848
Prasad, G. 11574
Prasad, G. S. V. 1459, 11558
Prasad, N. K. K. 1782
Prasad, R. 6953
Prasad, S. K. 3846, 5787
Prasad, S. S. 5662
Prasad, V. 2084
Prasad, Y. K. 5942
Prasuna, A. L. 2160
Pratap Singh 1416, 5919
Pratt, G. F. 2159
Pravisani, L. 11540
Pree, D. J. 2509, 8603, 8629, 9055, 10699
Préfontaine, G. 1928, 9002
Preiser, F. A. 7183, 11198
Preisler, H. K. 2873, 3002, 9103, 11979
Premalatha, V. 1360
Premchand 2848
Premkumar, T. 3637, 7846, 10532
Prensier, G. 7717
Présing, M. 8098
Presly, A. H. 8700
Press, J. W. 11020, 11053
Prest, D. B. 4132, 11946
Prestidge, R. A. 1518, 8526
Preston-Wilsey, L. 7448
Prestwich, G. D. 3290, 4312, 6305, 10276
Preuty, M. 2511
Prevett, P. F. 7081, 7988
Prévost, G. 9430
Prevost, G. 9441
Prévost, M. C. 8972, 8998
Prévost, Y. H. 5993
Prevosti, A. 5353, 5367
Prevot, P. 6171
Priatno, N. 8380
Price, D. A. 6621
Price, J. R. 5886
Price, K. H. 6075
Price, N. R. 10118
Price, P. 6787
Price, P. M. 6060
Price, P. W. 4013, 4046, 4980-4982, 5033, 5038, 5918, 7958, 8437-8438, 8912, 9915
Priddle, M. W. 10145
Priesner, E. 2225, 3024
Priimägi, A. F. 9277
Prince, J. W. 8728
Pringle, K. L. 495, 4635, 5627, 6716
Prins, A. H. 10534
Prinsen, J. D. 1682
Prinsley, R. T. 6242, 11258
Prinsloo, G. L. 3509, 3574
Prior, C. 4950, 6694
Prior, D. J. 303, 10498, 10503
Priore, R. 2747, 8621, 9140, 9405
Prishchepa, I. A. 4615
Prishchepa, L. I. 608
Pristavko, V. P. 2730
Pristos, C. A. 1063
Pritam Singh 4421
Priyakumari, C. J. 6906
Procházka, H. 8407
Prodi, G. 4192
Proff, L. von 5304
Proffitt, J. R. 9641
Prokopenko, A. A. 5381
Prokopenko, N. I. 810
Prokopy, R. J. 494, 548, 2312, 3458, 4741, 5013, 5727, 6805, 6848, 7897, 8617, 10703
Proksch, P. 5286
Pronina, M. M. 558
Proshold, F. I. 915, 8716
Prószynski, J. 11458
Protopotova, E. G. 2823
Proux, J. 115
Provan, G. J. 8887-8888
Prudent, P. 8434
Prudhomme, J. C. 1353
Prunet, J. P. 2093
Prusskaya, N. D. 2856
Pruszyński, S. 2874, 6923
Pryor, L. D. 2960
Przibram, H. 6611
Przybylski, Z. 7214
Pschorn-Walcher, H. 3571
Pu, Z. 6078
Puapoomchareon, P. 7076, 8907
Pucci, C. 519, 731
Puerto, G. A. del 2222
Pugolovkina, L. S. 3146
Puioux, J. 3276, 11301
Pula, F. 5217
Pulatov, A. P. 10695
Pulkkinen, M. 5053
Pulley, P. E. 7028, 8898, 11844
Pulicino, P. 11185
Pullin, A. S. 38-39, 9251, 11365
Pulman, D. A. 11146-11147, 11239, 11964-11966
Pundir, R. P. S. 1673, 10202
Punttila, P. 4015, 8913
Pupova, L. N. 7715
Purcell, A. H. 11900
Purdy, J. R. 7940
Puri, H. S. 2580
Puri, M. K. 2854
Puri, S. N. 595
Purkayastha, R. P. 8783
Purnima Sinha 7990
Purohit, M. S. 432, 5646, 11573
Purrrington, F. F. 3619, 10963
Purrini, K. 1216-1217, 5695, 7136
Purygin, P. P. 11303
Pushin, A. N. 11489
Pussemier, L. 981, 10817
Pusztai, A. 4087
Puterka, G. J. 1436, 2609, 5886, 11582
Puttaswamy 4675, 11584
Putter, C. A. J. 5142
Putters, F. A. 4487
Puttick, G. M. 2316, 7052
Puttler, B. 2450
Puzari, K. C. 5663
Py, C. 1597
Pye, B. 10859
Pykhova, V. T. 6703
Pywell, M. 2710
Pyysalo, H. 2018
Pyza, E. 7417
Qadeer, G. A. 7812
Qadri, S. S. H. 7174
Qadri, S. U. 7193
Qasim, G. Y. 1205
Qazi, M. H. 2404, 3469
Qi, B. A. 8510
Qi, G. R. 4555, 5348
Qi, L. 3697
Qi, Q. L. 5936
Qi, X. Y. 3653
Qian, D. Z. 9514
Qian, F. 11002
Qian, H. T. 4555
Qiao, Q. J. 3397
Qin, L. P. 4498
Qin, T. K. 2138
Qing, L. 3689
Qiu, B. 7152
Qiu, L. X. 8679
Qiu, S. B. 4578
Qiu, W. 4090
Qiu, W. F. 5148
Qu, S. 6078
Qu, X. F. 6135
Qu, X. M. 286, 3584
Quadri, S. K. 8143
Quadros Zambon, G. 859
Quaglia, F. 11668
Quant-Russell, R. L. 11092
Quarterly Newsletter - Asia and Pacific Plant Protection Commission 3416, 3826
Que, X. F. 3581
Queed, A. N. 5163
Queen, R. M. 4191
Queiróz, M. J. 8479
Queller, D. C. 6407
Quennedey, A. 9181
Quest, J. A. 8174
Quezada, J. R. 4825, 4953, 5160, 5170, 5788
Qui, F. 9866
Quicke, D. L. J. 268, 1333, 1430, 5584, 7308-7309, 8204, 9451, 11560
Quiles-Belén, A. 3723
Quilici, S. 1021
Quimby, W. F. 4437
Quinlan, M. C. 1128
Quinn, M. A. 9627
Quiñones Pando, F. J. 1458
Quintana, C. 3335
Quintero, E. 11892
Quintero, M. C. 2058
Quiot, J. 10387
Quiot, J. M. 10060, 11933
Quiros, C. F. 8665
Quiroz, C. 6109
Quisenberry, S. S. 2671, 2675, 9608
Quistad, G. B. 1988, 10435
Qureshi, Z. A. 9879
Rabaglia, R. J. 9965
Rabasse, J. M. 3398, 8385
Rabe, E. C. 8469
Rabindra, R. J. 849, 883, 4059, 9004, 9006, 9009
Rabinovitch, L. 897
Raccab, B. 11902
Racheli, T. 1142
Racke, K. D. 5213, 7225, 9097
Radchenko, A. G. 3490
Radchenko, E. E. 1431, 1438, 2620, 10573
Radcliffe, E. B. 9833, 11684
Radcliffe, F. H. 2002
Rade, S. G. 7752
Rademaker, W. 1751
Radha, N. V. 6808
Radhaiah, V. 8097
Radhakrishna, P. G. 2236
Radhakrishna, R. 7625
Radhakrishnamurthy, R. 4196
Radhakrishnan, B. 9905
Radić, Z. 3193
Radin, J. W. 2389
Radin, Z. 6912
Radja, N. C. 2651
Radjab, G. 3778
Radjab, G. H. 341, 3649
Radka, S. G. 1163
Radke, C. D. 2581, 8423
Radke, S. G. 2311, 2757
Radzevenchuk, I. F. 10676
Radzivilovskaya, M. A. 544
Rae, I. D. 10396
Rael, A. R. 4860
Rafaeli, A. 1078
Rafal'skii, A. K. 8580
Rafal'skii, V. Yu. 4029
Raffa, K. F. 1774, 1787, 5949, 8896, 10955, 10984
Raffaelli, D. 5692
Raffi, G. B. 6187
Rafi, M. A. 513
Raga, A. 4802
Rage, P. 9306
Ragge, D. R. 7255
Raghavaiah, G. 289, 10798, 11498
Raghu, K. 2044, 7222, 7226, 10136
Raghunathan, A. N. 291, 11909
Ragoussis, V. 577
Ragozzino, A. 6826
Ragsdale, D. W. 7497, 9833
Ragsdale, N. N. 10211
Ragumoorthy K. N. 7974
Ragusa, S. 2472
Ragusa di Chiara, S. 11802
Raha, S. 8878
Rahalkar, G. W. 6376, 7971, 11025
Rahalkar, S. R. 3934
Rahbe, Y. 3491
Raheel, M. 6176
Rahim, A. 7578
Rahman, A. A. A. 6965, 6967
Rahman, H. U. 10713
Rahman, M. F. 7174, 7330
Rahman, M. M. 947-948
Rahman, W. U. 796
Rahmatullah Jan 1794
Rahoo, G. M. 3763
Rai, A. B. 399
Rai, D. K. 2898
Rai, K. M. 8652
Rai, L. 399
Rai, M. 6953
Rai, P. C. 2898, 7970
Rai, P. S. 10895
Rai, S. 734, 11694, 11764, 11975
Raina, A. K. 69, 102, 2221, 2261, 3291, 6126, 6304, 9268
Raineri, V. 9336, 11282
Rainey, R. C. 7284
Raininko, K. 9824
Raintree, J. B. 7928
Raizada, R. B. 2042
Raizer, A. J. 3464, 3817, 3931, 6838, 6957
Raj, B. T. 689, 1687, 2869
Raj, S. 10760
Raj, S. K. 10786
Raj, T. P. 6949
Rajab, M. S. 9107
Rajadurai, S. 1289, 5004
Rajagopal, B. K. 1632
Rajagopal, D. 1632, 3506, 8723, 11487
Rajak, R. L. 4789
Rajakulendran, V. K. 208
Rajalekshmi, E. 3209
Rajam, B. 6533
Rajamani, S. 3731, 11566
Rajapakse, R. H. S. 6888
Rajaram, K. S. 10615
Rajavel, D. S. 8796, 9765
Rajdhar 5864
Rajendra Singh 893, 1308, 3573, 3861, 9740, 11290
Rajendram, G. F. 31, 256
Rajendran, B. 5660
Rajendran, R. 11574
Rajendran, S. 845, 7181, 8948
Rajendran, T. P. 1626
Rajesh Singh 2334, 11735
Rajini, P. S. 7210
Rajnauth, G. L. 11716
Rajotte, E. 8604
Rajotte, E. G. 3075, 3795, 8061, 9686
Raju, G. T. T. 4853, 11774
Raju, J. 11139
Raju, N. 3714, 6740
Raju, R. 11497
Rajukannu, K. 9757, 10607, 11574
Rajwant Singh 6904, 9777
Rakhimberdyeva, N. A. 2575
Ralph, K. M. 6199
Ralph, W. 10643
Ram, A. 11461
Ram, B. 325
Ram, G. 1686, 9828
Ram, H. 11733
Ram, P. 3664, 4940
Ram, R. D. 6852
Ram, S. 616, 974, 28', 8519, 11589, 1161

- Ram Kishun 4800
 Ram Singh 355, 3869, 3875
 Ram Ujagir 1674
 Ramachandran, N. 9508
 Ramachandran, R. 862, 2158, 3922, 5405
 Ramachandran, T. K. 10665
 Ramadan, M. M. 4488, 6535, 10436
 Ramadoss, S. 2036
 Ramakers, P. M. J. 3920
 Ramakrishnan, L. 4088
 Ramakrishnan, V. 10162
 Ramalingam, R. S. 668, 8719-8720
 Ramamoorthy, K. 7996
 Ramamurthy, R. 10128
 Ramamurthy, V. V. 2969, 3925
 Ramamurthy, P. S. 6290
 Raman, S. 5646, 11234
 Ramana, D. 52
 Ramana, K. V. 9508
 Ramanan, R. V. 3493
 Ramanand, K. 7192
 Ramaprasad, G. 4943, 4945, 8788
 Ramaraju, K. 3700, 7631
 Ramasubbiah, K. 3687-3688, 4905
 Ramasubbiah, K. 3888
 Ramasubramanian, G. V. 9781
 Ramaswamy, S. 1015
 Ramaswamy, S. B. 9878
 Rambir Singh 6812
 Ramdani, M. 10501
 Ramdev, Y. P. 7187
 Ramdohr, J. E. 59
 Ramert, B. 3120
 Ramesh, A. 6208
 Ramesh, H. P. 4196
 Rameshwar Singh 8087, 11972, 11982
 Ramiandrasoa, F. 5467
 Raming, K. 118
 Ramirez, A. 575, 9191, 9725, 10725
 Ramirez, J. M. 1100, 6347, 8253, 9184, 9370
 Ramirez, L. A. 8356, 8426, 9946, 10544-10545, 10733
 Ramirez, O. 10932
 Ramirez, R. 1371
 Ramirez B., W. 1273, 1572
 Ramirez Garcia, L. 134
 Ramirez Obregon, J. 428
 Ramiro, Z. A. 4855
 Ramkishore 1627-1628
 Ramos, A. B. 11360
 Ramos, I. M. 9616
 Ramos, J. G. A. 1700
 Ramos, J. M. 579
 Ramos, M. 575, 8356, 9191, 9722, 9725, 9946, 10544-10545, 10725, 10733-10734
 Ramos, M. E. 1220, 1463, 1946, 5128
 Ramos, P. 579
 Ramos, S. J. 5384
 Ramos-Ocampo, V. E. 7196-7197
 Ramos Rubio, A. L. 7173
 Ramoska, W. A. 1220, 11913
 Ramsamy, M. P. 9727
 Ramsay, C. 7428
 Ramsay, J. R. 6210
 Ramsey, R. L. 8245
 Ramshe, D. G. 1495
 Ramzan, M. 2819, 10047, 11026
 Ran Pal 7110
 Rana, A. 7221
 Rana, B. S. 456, 3719
 Rana, D. S. 3437
 Rana, R. S. 9817, 10086
 Ranaldi, F. 519
 Ranavavare, H. D. 6376, 7971, 11025
 Ranasinghe, M. A. S. K. 6695
 Ranatunga, P. R. 439
 Rand, D. M. 6384
 Randall Alford, A. 508
 Randhawa, A. S. 11028
 Randles, J. W. 8785
 Raney, H. G. 2638
 Ranganathan, L. S. 7896
 Rangappa, M. 1665
 Rangarajan, A. V. 5632
 Rangarajan, M. 9006
 Rangaswamy, J. R. 3050, 3443
 Rangaswamy, K. T. 10889
 Rani, A. 3572
 Rani, M. 1051
 Rani, P. 6189
 Rani, P. U. 10027
 Rani, S. 6194
 Rani, U. 8424
 Rankin, M. A. 4334, 9189
 Ranner, H. 3801
 Rans, M. 7979
 Rao, A. P. 12003
 Rao, A. S. 886, 3203, 6726, 11214, 11883, 12003
 Rao, B. N. 4905
 Rao, B. V. K. 5897
 Rao, C. G. S. 5087, 5087
 Rao, C. S. 423, 11672, 11798
 Rao, D. M. 5829
 Rao, D. R. 7229
 Rao, D. V. R. 9813
 Rao, G. N. 1465, 7593
 Rao, G. S. 6611
 Rao, G. S. P. 9755
 Rao, G. V. R. 9813
 Rao, I. N. 7625
 Rao, J. 1478
 Rao, J. R. K. 1459
 Rao, K. E. P. 7658
 Rao, K. J. 8097
 Rao, K. R. S. 665
 Rao, K. T. 5826, 8773
 Rao, K. V. 734
 Rao, K. V. R. 3176, 3178
 Rao, K. V. S. N. 9903
 Rao, M. R. 7209, 8401
 Rao, N. G. P. 456
 Rao, N. G. S. 8105
 Rao, N. S. 3809, 3842
 Rao, N. V. 423, 5826, 8773, 11770
 Rao, P. C. G. 7338
 Rao, P. J. 360, 929, 7187, 11526
 Rao, P. K. 990, 5087, 5087, 7756, 11971
 Rao, P. P. 8097
 Rao, P. R. M. 3699
 Rao, P. S. 2207, 3699
 Rao, P. S. P. 437, 1472, 2643-2644, 9589
 Rao, P. V. S. 7031
 Rao, R. S. N. 6984
 Rao, S. B. 971
 Rao, S. N. 5897
 Rao, S. S. 1483
 Rao, U. P. 7627
 Rao, V. R. 5827, 11971
 Rao, Y. K. 1459
 Raodeo, A. K. 2847, 7805
 Rapacchietta, L. 2713
 Rapisarda, C. 9700, 11515, 11802
 Rappaport, N. G. 6007
 Rapusas, H. R. 445, 448, 3701, 6741, 9594
 Raqib, A. 1915
 Rashad, A. M. 1730
 Rasheed Ahmad 10631
 Rasintsyna, N. M. 173
 Raske, A. G. 3005, 7915, 8852, 10964
 Rasnitsyn, A. P. 6
 Rasool, G. 10865
 Rasplus, J. Y. 2486, 3514, 4465, 6592
 Rassoulilian, G. R. 9639
 Rastegaeva, V. M. 8935
 Ratajczak, H. V. 8174
 Ratan, R. 186
 Rataul, H. S. 1924, 9796
 Ratchford, K. J. 3940, 7613, 8775
 Ratcliffe, B. C. 7950, 8169
 Ratcliffe, N. A. 1061, 4199, 5307, 11416
 Ratcliffe, R. H. 7694
 Rath, A. C. 6067, 11945
 Rath, R. 79
 Rath, W. 7493
 Räther, M. 9975
 Rathi, S. K. 11194
 Rathore, N. S. 6601
 Rathore, V. S. 4811
 Rathore, Y. S. 4841-4842, 10811
 Ratna, A. S. 7657
 Ratnasudhakar, T. 1906
 Ratnieks, F. 4499
 Ratti, E. 2130
 Rau, S. J. 853
 Raubenheimer, D. 3985
 Raulston, J. R. 914
 Raupp, M. 8814
 Raupp, M. J. 6999, 9972, 9996
 Raupp, W. J. 7595
 Rauscher, S. 7727
 Raushenbach, I. Y. 1116
 Rausher, M. D. 6449, 7409, 10334
 Raushner, M. D. 10333
 Rautmann, D. 11126
 Ravelo, H. G. 1699
 Raveret-Richter, M. 4499
 Ravindra Singh 1360, 2287, 6606
 Ravkin, A. S. 10687
 Ravlin, F. W. 5019, 10013
 Raw, A. 6567
 Rawash, I. A. 2012-2013
 Rawat, R. R. 2812, 2976
 Rawat, S. N. 2652
 Rawat, U. S. 3821, 6810, 6812, 8387, 9682, 11433
 Rawat, V. K. 6012
 Raworth, D. A. 9652-9653
 Ray, A. 11231
 Ray, P. K. 9075
 Ray, S. 6907
 Ray, S. D. 6836
 Ray, S. K. 8022
 Raychaudhuri, D. 2887
 Raychaudhuri, S. P. 10608
 Raymer, P. L. 2615, 9531
 Raz, D. 4772
 Razoki, I. A. 4836
 Razowski, J. 6284
 Rdikyan, E. Z. 9046
 Read, H. J. 122
 Readdy, T. L. 2203
 Reader, P. M. 4086, 7035, 8749
 Reagan, T. E. 362, 3439, 9609
 Real, M. D. 3047
 Reams, G. A. 1790
 Reardon, R. C. 3000, 11824
 Reavey, D. 7040, 8396
 Reay, R. C. 2112
 Rebentish, B. A. 8020
 Reda, A. S. 2583, 7185
 Reddanna, P. 5201
 Reddi, E. U. B. 6845
 Reddy, A. C. 8401
 Reddy, A. G. V. R. 5829
 Reddy, A. R. 518
 Reddy, A. S. 8773, 9870, 11770
 Reddy, A. V. 1482
 Reddy, C. G. V. 5361, 9360
 Reddy, D. J. 2593
 Reddy, D. N. R. 11774
 Reddy, D. V. R. 730, 7657
 Reddy, E. R. 1085
 Reddy, G. P. V. 1095, 7411, 11881
 Reddy, G. R. 5201, 7545
 Reddy, G. V. P. 1685, 3979
 Reddy, H. R. 10852
 Reddy, K. B. 3947
 Reddy, K. N. 1673, 10202
 Reddy, K. R. S. 7756
 Reddy, K. V. S. 3717
 Reddy, M. S. 3178
 Reddy, M. V. 6901, 10015
 Reddy, P. C. 2653
 Reddy, P. M. 2049, 6183, 8121
 Reddy, P. P. 1483
 Reddy, P. S. 7625
 Reddy, P. S. R. 425
 Reddy, S. R. 970
 Reddy, S. V. 6901
 Redfern, D. B. 5065
 Redfern, R. E. 10163
 Redner, J. H. 7025
 Redondo, A. 1588, 1824
 Redun, E. N. 381
 Ree, W. O. 7613
 Reed, C. 7104, 10041
 Reed, D. K. 880-881, 3914, 8049
 Reed, D. W. 3024
 Reed, J. P. 4647, 8489, 9567
 Reed, K. G. 9356
 Reed, R. B. 4648
 Reed, W. 3868, 5827
 Reeder, B. 7385
 Reedy, M. C. 3300, 11318
 Reedy, M. K. 3300, 11318
 Reenen-Hoekstra, E. S. van 11903
 Rees, D. P. 4049, 6028
 Rees, H. H. 56, 4337, 9249, 11333
 Rees, N. E. 5553
 Reese, J. C. 11532
 Reeve, J. D. 2502
 Reeves, D. L. 3530
 Reeves, E. M. 6489
 Reeves, J. 2674
 Reeves, R. M. 9966
 Refaie, O. J. 11201
 Refseth, D. 4391
 Regev, U. 6934
 Reghunath, P. 781, 11759
 Regier, J. C. 6610
 Regnander, J. R. 1836
 Régnière, J. 7054, 8840, 8865, 9416
 Regu, K. 10511
 Regupathy, A. 6233, 7269, 8656
 Rehefeld, C. 8241
 Rehm, S. M. 6586
 Rehnberg, G. 5198
 Reichard, D. L. 1559, 8564
 Reichardt, P. B. 3027
 Reichelderfer, C. F. 3853, 6060
 Reichelderfer, K. 6999
 Reichelderfer, K. H. 5156
 Reichert, H. 1101
 Reichert, P. 9095, 11223
 Reichhart, J. M. 3334
 Reid, C. A. M. 3981, 7946, 9993
 Reid, C. D. 233
 Reid, J. C. 5150
 Reid, J. L. 2687
 Reid, W. 7719
 Reidenbach, J. M. 278
 Reillo, P. R. 3575, 8359
 Reilly, C. C. 6802
 Reilly, L. M. 7538
 Reimer, K. J. 3004
 Reimer, N. J. 3828, 11508
 Reinecke, D. 2690
 Reinecke, J. P. 7850, 9366
 Reiner, E. 3193
 Reinganum, C. 4706
 Reinhard, H. 7260
 Reinhardt, I. 5837
 Reinhardt, R. 7438
 Reinink, K. 1609, 8667, 9750
 Reinschmiedt, L. L. 1448
 Reis, L. L. 5623
 Reis, P. R. 8756
 Reisner, W. M. 6320
 Reissig, W. H. 1563, 2737, 2739, 4754, 4756, 5730-5731, 8605-8606, 9683
 Reitberger, K. 9304

Reiter, L. W. 10120
Reitze, H. K. 9084
Rejmánek, M. 5049
Rekawar, P. V. 4865
Rekhter, B. A. 6308
Remamony, K. S. 10742
Remane, R. 6461, 9178
Remaudière, G. 4033, 4253, 4288, 6261, 10226, 10663
Rembold, H. 4341, 5415, 6361, 7353, 9298
Remington, C. J. 9159
Remund, U. 5714, 11624
Rémy, C. 1104
Ren, H. F. 3655
Ren, H. L. 7735
Ren, J. F. 4958
Rengasamy, S. 7170
Renobales, M. de 2282-2283, 7376, 11345
Renou, A. 3939, 7879
Renou, M. 2254, 3959, 5467, 10274, 10285
Renoux, J. 3579, 4550, 5516, 5914, 9460
Rensburg, G. D. J. van 9573
Rensburg, J. B. J. van 417, 2630, 4635
Rensburg, N. J. van 2992
Rensi, F. 5735
Rensner, P. E. 10781
Rentz, D. C. F. 191, 1765
Renucci, M. 6360, 9306
Renwick, A. 8052
Renwick, J. A. A. 2581, 6419, 8008, 8423, 10051
Renwrantz, L. 6616
Report - Northern Region, USDA Forest Service 4027
Research Monitor - Department of Agriculture, Thailand 1557-1558
Ressi, R. 2435
Retamosa, E. 1408, 1824
Retan, A. 6224
Retan, A. H. 3792
Retana, J. 4452
Rethwisch, M. D. 11463
Retief, E. 1886
Retnakaran, A. 3005, 7915, 10907
Rettig, J. M. 9710
Reuter, K. C. 9627
Revanna, H. P. 3698
Rey Bueno, F. del 986
Reye, D. N. 3316
Reyers, J. 9698
Reyes, A. R. 1543
Reyes F., J. 11892
Reyes González, F. 8984
Reyes-Villanueva, F. 9742
Reynaud, B. 3666
Reynolds, D. R. 10620
Reynolds, H. T. 9635
Reynolds, S. E. 1127, 6209, 6211, 11153
Reznik, S. Y. 6659, 8339
Reznik, S. Ya. 2513
Reznikova, Z. I. 1229
Rhamhalingham, M. 264, 1309, 7140, 7380
Rheenen, B. van 1682
Rheinheimer, J. 2317
Rheinlaender, J. 3317
Rheuben, M. B. 7451
Rhino, B. 10751
Rhoades, M. 3248
Rhoads, L. D. 11815
Rhodes, M. 6331
Rhomberg, L. R. 786
Riba, G. 999, 4131, 7246
Riba, M. 8598
Ribeiro, C. S. 5800
Ribeiro, J. M. C. 9350
Ribeiro, L. R. 11400
Ribeiro, M. J. 8336
Ribeiro, N. C. de A. 1748-1749
Ribeiro, S. T. 5950
Ribeiro de Araújo, J. 4605
Ribó, G. 5353, 5367

Rice, D. 7858
Rice, M. E. 1193, 5675, 5956
Rice, M. J. 1108
Rice, R. E. 4428
Rice, W. C. 4122
Richard, D. S. 6359, 10311
Richard-Molard, M. 11738
Richards, G. 11353
Richards, G. I. 4779, 4787
Richards, K. W. 5688, 8539
Richards, W. G. 8148
Richardson, C. 11232
Richardson, D. P. 800
Richardson, G. M. 7193
Richardson, H. 1272
Richardson, J. 1396
Richardson, M. 3474
Richardson, P. N. 7765
Richer, D. L. 11151
Riches, M. N. 11154
Richman, D. B. 8332
Richmond, C. E. 1845
Richmond, L. 2545
Richmond, R. C. 9281
Richter, A. 3057, 11086
Richter, A. R. 6084, 11919
Richter, H. 621
Richter, J. 4160, 5837
Richter, K. 852
Richter, M. 3893, 8686
Richter, S. 633
Ricker, D. W. 6655
Rickerl, D. H. 10598
Rickoll, W. L. 11335
Rico, M. C. 11208
Rico-Gray, V. 1754
Riddick, E. W. 8871
Riddiford, L. M. 114, 5334, 9256, 11334
Ridgway, N. M. 4502
Ridgway, R. 4231
Ridgway, R. L. 69, 2261, 5324, 6304
Rie, J. van 899, 4120, 5114, 9023
Riechert, S. E. 10442
Riedel, B. 8116
Riedel, V. 10765
Riedel, W. 4616
Riedell, W. E. 413, 11549
Riedl, H. 8577, 8623
Riedl, H. W. 9685
Riemann, J. G. 2261, 9289
Riemer, J. 6225
Riemer, R. 1234
Rieske, L. K. 10984
Rietzmüller, U. 3902
Rietz, S. 11125
Righetti, T. L. 2748
Rigney, L. J. 7114
Riley, A. M. 509, 6280
Riley, C. M. 3038
Riley, C. T. 6304
Riley, D. K. 695
Riley, J. R. 2398, 10620
Riley, T. J. 2624, 9555
Rimsa, V. 8731
Rind, F. C. 6337-6338
Rinderer, T. E. 1258
Rinderknecht, B. L. 4182
Ring, D. R. 4725
Rings, R. W. 146, 10360
Rinnhofer, G. 4262
Rios, E. 8636
Rios, G. P. 10796
Ripka, G. 5018
Rippon, L. E. 10730
Risberg, B. 9986
Risha, E. M. 6678
Risher, J. F. 2063
Risley, L. S. 832
Rissing, S. W. 198, 200, 2425, 3488, 4458
Ristori, P. 2893
Rita, S. 5900
Ritcey, G. 2945
Ritchie, J. M. 6598
Ritchie, M. G. 7407
Ritossa, F. 4314
Ritter, E. 25
Ritter, K. S. 105-106, 11070

Ritter, L. 8174
Ritter, W. 1244, 1250, 1262, 6586
Ritter, W. F. 10606
Rituma, I. 1972
Rivalta, L. 1566
Rivard, S. R. 7155
Rivera, E. 1593
Rivera, R. 1272, 7498
Rivet, M. P. 9992
Rizk, M. M. A. 2293-2294
Rizvi, S. M. A. 3875
Rizzo, H. F. 321
Roach, B. 7560
Roach, S. H. 455
Robacker, D. C. 6955, 9028, 10715
Robaux, P. 1246
Robb, S. 6341, 9225
Robbe-Durand, P. 10185
Robbins, J. T. 5879
Robbins, K. 8784, 10645
Robbins, R. K. 1049
Robbins, T. O. 1403, 9506
Roberson, J. L. 5881
Robert, D. 4374
Robert, K. 4509
Robert, P. 7246
Robert-Nicoud, M. 7329
Roberts, B. W. 9766
Roberts, D. W. 2873, 3110-3111, 3878, 5137, 5649, 8008, 10051, 10056, 10066, 11082, 11921, 11925
Roberts, E. A. 10730
Roberts, J. J. 2605
Roberts, P. 1570
Roberts, R. B. 11998
Roberts, T. 2037
Roberts, W. E. 6198
Robertson, A. S. 10940
Robertson, H. G. 337, 2567, 5427
Robertson, J. A. 3630
Robertson, J. L. 2873, 3002, 9103, 10427, 11979
Robertson, L. N. 4612, 4688, 7811
Robin, A. M. 1857
Robin, R. P. 820
Robinson, A. S. 4234-4235
Robinson, B. 7053
Robinson, D. J. 11062
Robinson, G. S. 5
Robinson, J. F. 3391, 8273
Robinson, N. G. 4220, 10159
Robinson, W. H. 1793
Robles-Chillida, E. M. 8212
Robson, D. S. 4756
Robusto, F. 5773
Roby-Shemkovitz, A. J. 6349
Roces, F. 11423
Rocha Leão Neto, R. da 9715
Rochat, D. 7347
Roche, P. 4396
Rochow, W. F. 1443-1444
Rockwell, C. H. 10137
Rockwell, R. F. 7722
Röder, A. 9011
Roder, W. 6634
Roderick, G. K. 7401
Rodgers, M. R. 6024
Rödler, G. 6147
Rodolphie, F. 3677
Rodrigues, V. 9274
Rodrigues Machado Benassi, V. L. 4951
Rodríguez, A. 3948, 4953
Rodríguez, A. G. 986
Rodríguez, B. 6674, 10537
Rodríguez, D. 8671
Rodríguez, D. J. 1202
Rodríguez, H. 10544-10545, 10725
Rodríguez, J. 1172, 3823, 5573
Rodríguez, J. 1400
Rodríguez, J. A. 1593
Rodríguez, J. B. 10156, 11235
Rodríguez, J. G. 5095, 5814, 11731

Rodríguez, J. M. 1579
Rodríguez, M. J. C. 742
Rodríguez, P. 11863
Rodríguez, R. 9522
Rodríguez Cuellar, S. 428
Rodríguez-del-Bosque, L. A. 2632, 5621, 10587
Rodríguez Gonzalo, E. 9033
Rodríguez Hernández, I. 4561
Rodríguez-Menéndez, H. 1903
Rodríguez, M. E. 10724
Rodríguez-del-Bosque, L. A. 4637
Rodziewicz, A. 8824
Roe, R. M. 53, 2172, 2814, 7339
Roehrkasten, A. 9245
Roel, A. R. 4861, 8706
Roelofs, W. 7344
Roelofs, W. L. 61, 66, 108, 2196, 3289, 7734
Roer, H. 2994
Roessingh, P. 3999
Roff, D. 1043
Roff, D. A. 3359
Roger, J. P. 4790
Rogers, C. B. 9039
Rogers, C. E. 11075
Rogers, D. J. 6814, 7035
Rogers, H. R. 982, 5214
Rogers, R. E. L. 2738
Rogers, R. L. 3940
Rogg, H. 4535
Rogo, L. M. 2875
Rogulev, A. F. 2385
Rohde, M. 1216
Rohel, D. Z. 11103
Rohilla, H. R. 11734
Rohlfien, K. 5252
Rohrbach, K. G. 3828
Rohrbaugh, R. H. 9030
Röhrkasten, A. 7364
Rohrmann, G. F. 4115, 4137, 8007, 11092, 11101
Roinel, N. 9377
Roininen, H. 4046, 5038
Roisin, Y. 11478
Roistacher, C. N. 6829, 6835, 11902
Roitberg, B. D. 3009, 6834
Rojas, P. 9374
Rojas, R. R. 9289
Rojas-León, J. C. 10023
Rojas-Rousse, D. 1900
Roland, J. 1851, 6787, 7282, 9658
Rolando, C. 9248
Rollenhagen, T. 9354
Rollin, P. 1084
Rollo, C. D. 311
Rolloff, B. 385-387, 10567-10568
Rolph, I. A. 10891
Rolston, L. H. 2699
Roltsch, W. J. 9786-9787
Romanenko, V. N. 11438
Romaniuk, K. 5441-5442, 11474
Romankow, W. 2688
Romano, G. 1328
Romanyuk, M. 6307
Rombach, M. C. 426, 5106, 5649
Romeo, J. T. 3641
Romero, P. 9079
Romero Nápoles, J. 402, 630, 9176
Romine, C. 9881
Romo Ruiz, C. 742
Rompuy, L. van 7122
Romstöck, M. 4592
Romstöck-Völkl, M. 10514
Ronacher, B. 5321
Rondelaud, D. 6623
Rondonuwu, S. A. 5983
Ronni, P. 1440
Ronsseray, S. 5272
Room, P. M. 2922
Roomi, M. W. 863
Roongsook, D. 7579
Roper, D. S. 4213

- Roques, A. 4242, 5992, 5996, 6008
 Roques, L. 5066
 Rosa, G. de la 8636
 Rosa, J. 10898
 Rosa, M. E. de la 7722
 Rosada, J. 6923
 Rosario, R. M. T. 12, 1025
 Rosario Alzugaray, M. del 7614
 Rosas, S. B. 5207
 Rosati, P. 1566
 Roscher, K. 10832
 Rose, D. J. W. 2589, 3140
 Rose, H. S. 7995, 10237, 10775
 Rose, M. 3952
 Rose, R. L. 10801
 Rose, S. 7588
 Rosell, J. A. 8598
 Rosen, A. E. 2039
 Rosen, D. 1321, 1737, 1760, 3811, 3952
 Rosen-Wolf, A. 4117
 Rosenberg, M. 51
 Rosenberg, R. H. 2314
 Rosenberger, D. A. 1560
 Rosengren, R. 9386
 Rosenheim, J. A. 2496, 2762, 5398, 8355
 Rosenstiel, R. G. 10678
 Rosenthal, G. A. 2280
 Rosenthal, S. S. 5558
 Roshka, G. K. 6308
 Rosini, G. 4311
 Růžka, G. 6308
 Ross, D. R. 376, 5474
 Ross, D. W. 5973, 10930, 11818
 Ross, K. G. 204, 10427
 Ross, S. E. 10586
 Rossaro, B. 5397
 Rossberg, D. 28, 2386, 9010
 Rossel, H. W. 5810
 Rossem, G. van 6581
 Rosset, P. 1973
 Rosset, P. M. 1712, 12030
 Rossetto, C. J. 655
 Rossi, C. E. 8480, 8697
 Rossi, E. 11668-11669
 Rossi, M. M. 9695
 Rossignol, P. A. 10450, 10473
 Rossinskaya, L. N. 9070
 Rössler, S. 10559
 Rössler, W. 9228, 10298
 Rössler, Y. 8646
 Rossolimo, O. L. 1890
 Rost, F. W. D. 1074
 Roszko, A. 1641, 1643
 Rota, P. 2554
 Roth, U. 9184
 Rotheray, G. E. 339, 3071, 7267, 9979, 9989
 Rothert, H. 11205
 Rothman, L. D. 11432
 Rothschild, G. H. L. 8560
 Rothschild, M. 6414
 Roton, L. M. 5015
 Rotundo, A. 6798
 Rotundo, G. 3097, 6798
 Rotzler, S. 3475
 Roubos, E. W. 4567
 Rouchaud, J. 9770
 Roudier, A. 4018
 Rougon, C. 1369, 7469
 Rougon, D. 1369, 7469
 Rouland, C. 3579, 4550, 5516
 Rountree, D. B. 5335, 11327
 Roush, R. T. 915, 4927, 8745, 8769
 Rousset, A. 7375
 Rout, G. 8951
 Roux, A. M. le 10415
 Roux, G. le 10415
 Roux, O. 11744
 Roversi, P. F. 2979-2980, 5933-5934, 5968-5969, 10000
 Rovesti, L. 4816, 8981, 9022, 10216
 Rovner, J. S. 1305, 9950
 Rowan, D. D. 7676, 9108
 Rowe, G. E. 1929
 Rowe, K. E. 8529
 Rowell, C. H. F. 1101, 6326, 6340
 Rowell-Rahier, M. 6300
 Rowland, M. 10859
 Rowley, A. F. 1061, 4199, 5307, 11416
 Roxas, J. O. 10063
 Roy, B. 8259
 Roy, B. P. 8010
 Roy, D. N. 7940
 Roy, J. K. 1471
 Roy, K. 11046
 Roy, S. 47
 Royalty, R. N. 7838, 11079, 11708
 Royama, T. 7144
 Royce, L. A. 1267, 4460, 10473
 Royce, W. G. 960
 Roychoudhury, N. 989, 2071, 4171-4172, 8702, 11176-11177
 Roye, L. A. 4490
 Royer, M. D. 959, 3184
 Royer, T. A. 2861, 4826, 5857
 Royle, D. J. 12036
 Rozario, S. 8857
 Rožek, S. 1641, 1644
 Rozen, H. 11959
 Rozengart, V. I. 2015
 Rozinskaya, E. M. 529
 Rozkošný, R. 4404, 12014
 Růž, B. le 2100, 6935, 10837
 Ruberson, J. R. 2471, 5450, 8736
 Rubia, E. 7516
 Rubia, E. G. 5665-5666, 7641, 7644, 10617, 11578
 Rubiale, A. 4622, 4859, 6764, 6890
 Rubin, G. M. 10375
 Rubin, M. 10403
 Rubink, W. L. 2387, 7499
 Rubinskaya, T. Y. 11310
 Rubinstein, R. 11102
 Rubio, A. L. Ramos 7173
 Rueda, A. 312
 Rueda, B. P. 4667
 Ruesink, W. G. 4654
 Rufas, J. S. 7393
 Rufener, G. K., II 5817
 Ruiters, P. C. de 3518
 Ruiz, C. R. 742
 Ruiz, E. A. 7620
 Ruiz, I. 5548
 Rumbo, E. R. 10280
 Rummel, D. 8566
 Rummel, D. R. 2917, 5168, 6975, 7868, 7870
 Rundel, P. W. 9049
 Rup, P. J. 5332
 Rup Lal 2047
 Rupeš, V. 4453, 4457
 Rupperecht, J. K. 9038
 Ruqiyah 1915
 Rural Advancement Fund International 11114
 Rush, P. A. 11793
 Rushton, S. P. 4694, 5682, 10351
 Rusiecki, V. 9204
 Rusinov, V. I. 7700
 Rusnak, A. F. 210
 Russell, E. P. 9434
 Russell, L. M. 5386
 Russell, R. L. Q. 4115, 11101
 Russell, W. A. 2633, 2640, 5617, 7605, 9571, 10604
 Russin, J. S. 1658, 1661
 Russo, A. 6831, 11802
 Russo, L. W. 11666
 Russo, R. 11184
 Ruszkowska, M. 4628
 Ruszler, P. L. 7467
 Ruth, J. 9447
 Rutherford, D. M. 5323
 Rutherford, I. 11133
 Rutherford, S. R. 8700
 Ruthmann, A. 26, 11065
 Rutilio Quezada, J. 3948, 4825, 4953, 5788
 Rütting, T. 9296
 Rutledge, L. C. 11165
 Ruud, S. K. 2127
 Ruuth, P. 6938
 Ruxo, L. O. 5187
 Ruzette, M. A. 2742
 Ruzo, L. O. 958
 Rwamputa, A. K. 10944
 Ryabchenko, N. A. 10574
 Ryabchinakaya, T. A. 551
 Ryabchinskii, A. V. 8313
 Ryabko, B. Y. 1229
 Ryabkova, N. F. 1277
 Ryan, C. 5893
 Ryan, C. A. 1978
 Ryan, M. F. 686-687
 Ryan, R. O. 3339, 4315, 7371
 Ryapolov, V. Ya. 1800, 11789
 Ryba, J. 4453
 Rybak, V. L. 8764
 Rybicki, E. P. 1449, 4139
 Rydén, K. 6707
 Ryerse, J. S. 6320, 11928
 Rygg, T. 8071
 Ryker, L. C. 3974, 8864
 Rylands, A. B. 1224
 Rymon, D. 7860
 Ryoo, M. I. 856
 Rytí, R. T. 3484
 Ryu, K. S. 293-294
 Ryu, M. O. 8352
 Saager, F. 4328
 Saarenmaa, H. 11843
 Saatov, Z. 987
 Saavedra Oliva, O. 4561
 Sabelis, M. W. 3540, 8344, 10453, 10464, 11745
 Sabio, G. C. 7080
 Sabirova, O. R. 1554, 9286
 Sabluk, V. T. 3897-3898
 Sabudin, M. A. 8792
 Sacalis, J. N. 724, 9848
 Sacchi, C. F. 4982
 Sacchi, V. F. 5288, 5312, 6318
 Sacco, M. 5728, 6811
 Sachan, A. S. 11676
 Sachan, G. C. 685, 2476, 3172, 4841-4842, 10322, 10761, 10811
 Sachan, J. N. 3775, 3783, 5816, 10807
 Sachdev-Gupta, K. 2581, 8423
 Sacher, P. 6590
 Sachithanandam, S. 9009
 Sachs, Y. 7860
 Sadaka, N. 7014
 Sadakane, K. 6348
 Sadakathulla, S. 10665
 Sadana, G. L. 3537, 6778, 6850
 Sadasivam, S. 5667, 8506
 Sadler, E. J. 455
 Sadof, C. S. 6999, 9996
 Sadykin, A. V. 1716
 Sadykina, E. I. 1716
 Saeed, F. N. 2231
 Saeki, M. 4162
 Saeki, Y. 3590
 Sáenz Pisaca, D. 4561
 Safar Alizadeh, M. H. 391
 Safaryan, S. E. 720
 Safavi, M. 147
 Safonkin, A. F. 2228, 2725
 Safranyik, L. 7918
 Saghir, S. A. 513
 Sah, B. N. 2813
 Saha, A. K. 8259
 Saha, J. J. L. 5498
 Saha, S. 1189, 2966
 Sahai, Y. N. 4293
 Sahay, R. K. 6954
 Sahu, H. R. 8727
 Sahu, J. P. 6900
 Sahu, R. C. 6163
 Sahu, R. K. 1486
 Said, W. A. 282
 Saidi, J. 6715
 Saidman, B. O. 11614
 Sailer, R. I. 6495
 Saimbhi, M. S. 646
 Sain, M. 4657
 Saini, A. S. 974
 Saini, E. D. 321
 Saini, K. 8143
 Saini, M. L. 5453, 6047, 7783, 8726, 11987
 Saini, M. S. 10236
 Saini, R. K. 9065
 Saini, R. S. 6363, 6735
 St. Clair, M. B. 10137
 St. J. Green, A. 2798
 St. Leger, R. J. 1954, 1958, 1961, 3110-3111, 4096, 8032, 11082
 St. Martin, S. K. 5817
 St. Pierre, R. G. 7721
 Saion, M. 11706
 Saito, A. 4395
 Saito, M. 3657
 Saito, O. 3386-3387, 5777, 5792, 5858, 7454-7455, 7680
 Saito, T. 3703, 4839, 5670, 6878, 7179, 7761, 9741, 10106, 11173
 Saitoh, T. 3711
 Saiz, F. 798
 Saiz, J. 11469
 Saján, R. J. 11859, 11862
 Sajap, A. S. 1314, 3547, 5127, 11445
 Sajjan, S. S. 6496
 Sakagami, S. F. 1059
 Sakagami, Y. 5748
 Sakaguchi, B. 298, 7317, 8066
 Sakai, A. 11889
 Sakai, R. 2021, 7215
 Sakai, S. 9161
 Sakakibara, M. 9221
 Sakaluk, M. C. 199
 Sakaluk, S. K. 199
 Sakamoto, T. 10105
 Sakano, K. 3590
 Sakaue, S. 6480
 Sakhare, S. D. 5189, 5224
 Sakuda, S. 8149
 Sakufiwa, E. M. 11056
 Sakurai, H. 2290, 3356
 Sakurai, K. 9466
 Sakurai, S. 2180, 5335, 9247, 10309-10310, 11327, 11496
 Salam, M. A. 1152, 6721, 7617
 Salama, H. S. 5126, 8041, 10084
 Salami, A. 10123
 Salamon, P. 5842
 Salas, J. 5860
 Salas, L. A. 802
 Salas-Araiza, M. D. 9826
 Salazar, V. J. 691
 Salcedda, V. M. 6374
 Salcedo, F. J. 3349
 Saleem, M. A. 1904
 Saleh, F. M. 7204
 Saleh, M. A. 6950
 Saleh, R. 1470
 Saleh, S. M. 1913, 11050
 Saleh, W. S. 2011
 Salem, A. A. 3644
 Salem, H. 8174
 Salem, M. 4066
 Salem, M. S. 4048
 Salgado, J. M. 11396
 Sali, A. G. M. 11486
 Salikhov, R. R. 544
 Salminen, P. 5054
 Salinero, M. A. 4417
 Saliwanchik, D. 2415
 Salles, C. A. 897
 Salloum, G. S. 333
 Salman, A. G. A. 3067
 Salman, A. M. 7817
 Sal'manovich, R. P. 3205
 Salom, S. M. 8860, 9963
 Salter, R. 7689
 Saltzman, S. 11181
 Saluja, J. 10065
 Salunkhe, G. N. 1898, 8688

Salvachúa Gallego, C. 7492
Salvadori, D. M. F. 11400
Saly, K. R. 5018, 9922-9923
Salyani, M. 6839
Sama, S. 9581
Samalo, A. P. 1670
Samaniego, N. A. 6727
Sambasivarao, K. 8096
Samersov, V. F. 4615
Samkov, M. N. 3460
Samoedi, D. 10547
Samoilov, Yu. B. 2291
Sampedro, J. 11354
Samraj, D. A. 1733, 6906
Samšiňák, K. 1237, 1318
Samšiňáková 6032
Samson, G. 11401
Samson, M. V. 3596, 11497
Samson, P. R. 5091-5093, 7182, 10949, 11358
Samson, R. A. 4130, 8998, 11903
Samsuddin, M. W. 7884
Samuel, S. D. 3001
Samuel, T. 2066, 11218
Samuels, K. D. Z. 6083, 6688
Samuels, R. 353
Samuelsson, B. 11105
Samways, M. J. 267, 2442, 8284
San Feliciano, A. 4417
San Lio, G. M. di 6831
San Valentin, H. O. 9927
Sanap, M. M. 5867
Sanchez, C. A. 2789
Sanchez, F. F. 2780
Sánchez, F. G. 1198
Sánchez, F. García 7173
Sánchez, I. 429, 9330
Sánchez, J. L. C. 217, 403, 630, 1458
Sánchez, L. 4622
Sánchez, L. R. 4859, 6764, 6890
Sánchez, M. C. 4676
Sánchez, M. J. L. 4987
Sanchez, M. V. 986
Sanchez, T. E. 6727
Sánchez-Aguayo, I. 9266
Sánchez-Herrera, F. 819
Sánchez-Piñero, F. 1211
Sánchez Prado, J. A. 3383
Sanchis, V. 11099
Sandall, L. J. 6383
Sandberg, S. 3613
Sandberg, S. L. 332
Sander, E. 6673
Sanders, S. 1889
Sanderson, A. R. 839
Sanderson, J. P. 4273, 6800, 7003, 7720, 9669-9670
Sanderson, K. C. 8813
Sanderson, T. 9924
Sandhu, B. S. 3937
Sandhu, G. S. 599, 5010, 9753, 11664, 11673
Sandhu, S. S. 1728, 9820, 9860
Sandner, H. 4149
Sands, D. P. A. 581
Sands, V. E. 5343, 7383
Sandu, Z. 4972
Sandved, G. 8810-8811
Sanford, J. O. 1448
Sanford, L. L. 694, 8740
Sanford, W. G. 3828
Sang, S. O. 1938
Sani, K. M. 4551
Sanić, V. 2986
Sanin, E. V. 3897
Sankaran, K. V. 11004
Sankaranarayanan, A. 8101
Sankarperumal, G. 6855
Sanner, C. 2216
Sannino, L. 5895, 9888-9890
Sano, K. 2829
Santa-Cecília, L. V. C. 245
Santafianos, D. 4220
Sant'Ana, E. P. 4666
Sant'Ana, L. S. 3191
Santha, P. C. 5219
Santhakumari, K. 497
Santhalakshmi, G. 7142
Santí, R. 7199
Santiago, E. 136
Santiago-Alvárez, C. 887, 5140
Santiago-Alvarez, C. 11932
Santis, L. de 1880, 2444, 4511, 4876, 5690
Santos, A. B. dos 4666
Santos, B. 2877, 4860, 4893
Santos, G. P. 7922
Santos, J. C. C. dos 4776
Santos, J. L. 1134, 1136, 5345, 6506, 10320
Santos, M. A. 139, 11872
Santos, S. 6173
Santos, S. Valentinuzzi de 9307
Santos, W. J. 4918, 8335, 9868
Santos Martins, D. dos 4954
Santos Serodio, R. dos 7988
Sanyang, F. 5989
Sanza, F. 4467
Sanzhimitupova, R. D. 5709
Saparmamedova, N. K. 2728
Sapp, R. 8249
Sapp, R. E. 9347
Sarag, D. G. 7876, 11775
Sarasua 389
Sarawak, Ministry of Agriculture and Community Development 7299
Sarazin, M. J. 10455
Sarbaeva, N. N. 11303
Sarbhoy, R. K. 1634
Sardana, H. R. 1648, 4864, 7766, 9754-9755
Sareen, M. L. 4486, 4534, 5504, 6594
Sarhan, A. A. 11560
Sarhan, M. M. 11195
Sarin, K. 6042, 7099
Sáringer, G. 615, 8738
Sarjono 8789
Sarkar, A. 5215
Sarkar, P. K. 7711, 10664, 11619
Sarker, B. B. 5642
Sarkisov, R. N. 2539-2541
Sarkisyan, M. A. 3131
Sarma, P. R. 6141
Sarma, Y. R. 9508
Sarna, S. 6357
Sarnaik, D. A. 1585
Sarnaik, D. N. 2911
Sarnthoy, O. 6404
Sarode, S. V. 585, 732, 11629, 11755, 12007
Sarto i Monteys, V. 1373, 4397
Sartwell, C. 10927
Sarup, P. 411, 415-416, 11413, 11552, 11554-11555
Sasagawa, R. 7600
Sasaji, H. 2553
Sasaki, E. T. 8478, 8676, 8944
Sasaki, M. 933
Sasaki, T. 9217
Sass, M. 2200
Sastrosiswojo, S. 5780
Sastroutomo, S. S. 5175
Sastry, M. V. S. 1459, 4657, 11558
Satakopan, V. N. 7808-7809
Satapathy, M. K. 9583-9584
Satari, H. G. 700
Sathapathy, M. K. 11567
Sathe, T. V. 3239, 3568
Sato, H. 5014, 10972
Sato, K. 5370-5371
Sato, M. 3390
Sato, S. 10057
Sato, T. 4574, 7630, 7895
Sato, Y. 113, 3590, 3702, 3845, 9760
Satoh, T. 9380
Satpal Singh 4313
Satpathy, G. 1471
Satpute, P. P. 2759, 2773, 3808, 4782
Satpute, U. S. 2911, 7876, 11775
Sattelle, D. B. 6342
Satterlee, L. D. 7689
Sattler, J. F. 7568
Sattler, K. 4084, 5767
Satyanarayana, A. 5826
Satyanarayana, K. 8081, 9869
Satyanarayana, S. V. V. 6984
Satyavathi, D. V. L. 4943-4945, 5084
Satyavir 11519
Sauer, K. P. 5781
Saul, S. 11049
Saul, S. H. 4346, 7386
Saul, S. J. 7354
Saume Romero, F. 11233
Saunders, D. S. 10311
Saunders, J. L. 5170
Saunders, M. C. 7949
Saur, R. 1996
Sauter, W. 5737, 7727
Sautter, H. 3965
Sauvard, D. 9999
Savage, E. P. 8394
Saval, J. M. M. 5549, 7506
Savanurmamath, C. J. 10490
Savchenko, V. K. 2292
Savescu, A. 7311
Savin, I. M. 1802
Savino, F. 1693
Savitri, P. 7756
Savoie, K. L. 4848
Savolainen, R. 7481, 8330, 11856
Savona, G. 6674, 10537
Sawa, M. 6399-6401
Sawada, Y. 8
Sawadogo, J. G. 4195
Sawicki, R. M. 6144, 10859
Sawires, Z. R. 2835
Sawoniewicz, J. 1028, 2440, 8210
Sawyer, A. J. 8484-8485
Sawyer, S.M. 6247
Sax, N. I. 12029
Saxena, A. 4293
Saxena, A. P. 1687, 2866
Saxena, D. M. 4187
Saxena, H. 8520
Saxena, J. C. 11694
Saxena, J. D. 11975
Saxena, K. N. 3819, 9603
Saxena, P. K. 2030, 10127
Saxena, R. 2593
Saxena, R. C. 1132, 3274, 3725, 4293, 5657, 5659, 6725, 6738, 7624, 7632, 7635, 7640, 7981, 8508, 9599-9600, 10032, 10616, 10622, 11227, 11576-11577
Saxena, S. K. 2054, 7990
Saxena, V. S. 5193, 6165, 8091
Saxena, Y. 11973
Sayampol, B. 1413
Sayed, A. A. 3067
Sazonov, A. P. 534, 2749
Sazonova, I. N. 1060
Sazonova, L. V. 10823
Sbordoni, V. 1142
Scaccia, B. 3998
Scala, C. 3246
Scalera, G. 3253
Scaltriti, G. P. 9151, 11523
Scarborough, R. W. 10606
Scarborough, T. A. 4915
Schaalje, G. B. 2333, 9353
Schabel, H. G. 1931, 10944
Schaefer, C. W. 8202, 9163, 10213
Schaefer, J. 1124, 3297
Schaefer, K. 8523
Schaefer, P. W. 7948, 11815
Schäfer, K. 11988
Schäfer, M. W. 9294
Schaffer, B. 4773
Schaffner, J. C. 8202
Schäffner, K. H. 3273
Schalbroeck, J. J. 7590
Schalk, J. M. 7827, 9822
Schall, E. D. 5082
Schaner, A. M. 68, 70, 1083, 5298
Schaner, P. J. 7451
Schang, M. M. 6983
Scharrer, B. 7359
Schatral, A. 461
Schäufele, W. R. 1676, 11737
Schauff, M. E. 3557, 4640
Scheepens, M. H. M. 4102
Scheepmaker, J. W. A. 8488
Scheffel, H. 9260
Scheffrahn, R. H. 2528, 3576, 8959, 11013, 11481
Scheibe, T. D. 10143
Scheller, K. 9261
Scheltinga, T. T. van 7791
Schelvis, J. 4544
Schembri, P. J. 7433
Scher, H. 1997
Scher, H. B. 2108
Schertz, K. F. 1496
Schiavon, M. 8135, 11212, 12006
Schliessendoppler, E. 6924
Schiff, N. M. 4366, 6315, 10283
Schiffers, B. C. 11033
Schildberger, K. 10297
Schilly, D. 8249
Schimke, R. T. 9239
Schindler, S. C. 1858
Schinkmann, K. 11313
Schinohara, R. K. 5869
Schirilla, G. 4461, 8855, 10119
Schlettwein, C. H. G. 7561
Schliephake, E. 877, 11906
Schliephake, G. 4264, 6260
Schliesske, J. 2694, 5073, 8550
Schlumprecht, H. 2566
Schlüter, U. 6214
Schlyter, F. 2984, 11839, 11846, 11849
Schmahl, G. 8023
Schmaranzer, S. 2435
Schmid, C. W. 3058
Schmid, J. M. 5991
Schmid, R. D. 9348
Schmid-Hempel, P. 9395
Schmid-Hempel, R. 9395
Schmidt, F. 10277
Schmidt, G. H. 190, 2277, 2329, 2993, 2996, 3016, 3197, 5082, 5416, 6678
Schmidt, H. 2061, 8055
Schmidt, H. E. 10869
Schmidt, H. U. 3049
Schmidt, J. 1211
Schmidt, J. M. 249
Schmidt, J. W. 4618
Schmidt, P. 11144
Schmidt, R. S. 9684
Schmitt, A. T. 8748
Schmitz, J. 4325
Schmitz, R. F. 1788, 2212, 5924
Schmutterer, H. 2582, 9050, 11145
Schmutzenhofer, H. 8910
Schnagl, R. J. 10153
Schneider, A. 1069
Schneider, B. 3811
Schneider, D. 1169
Schneider, J. C. 915, 8769, 10087
Schneider, K. 10470
Schneider, P. 1260, 7490, 7493-7494, 9265, 9304
Schneider, R. 4972
Schneider-Ritter, U. 1250
Schneller, H. 11780
Schnitzler, P. 4116-4117, 4125
Schnoor, J. L. 937
Schoener, T. W. 11392
Schoenig, S. E. 2496
Schofield, R. 6369
Scholtz, A. J. 9883
Scholz, J. 4117, 4125

- Schomburg, C. J. 2069
 Schönhammer, A. 1996
 Schönherr, J. 4986
 Schöni, R. 7781
 Schoofs, L. 3330, 5337
 Schooley, D. A. 1120, 1988, 6355, 10306
 Schooneveld, H. 2381
 Schoonhoven, L. M. 2250, 8680, 8916
 Schopf, A. 1849
 Schopf, R. 5058
 Schotzko, D. J. 2678, 4843, 5805, 7792, 7972
 Schouten, R. T. A. 1
 Schowalter, T. D. 832-833, 1776-1777, 1865, 4021, 5994
 Schreiber, F. 11920
 Schrock, J. R. 3214, 7475
 Schröder, D. 7220
 Schröder, J. 9228, 10298
 Schroder, R. F. W. 3901, 4880
 Schroeckenstein, D. C. 7488
 Schroeder, L. A. 1808
 Schroeder, L. M. 803, 9986
 Schruft, G. 6228
 Schubert, C. 5072
 Schubert, H. 10470
 Schüch, W. 4524
 Schügerl, K. 5287
 Schuler, M. A. 3152
 Schulte, L. K. 6632
 Schulten, G. G. M. 3141
 Schulthess, F. 710
 Schultz, B. B. 11402
 Schultz, J. C. 5938, 8883
 Schultz, P. B. 4970
 Schumacher, T. E. 9551
 Schumann, K. 481, 3652, 10374
 Schupp, E. W. 2952
 Schurig, V. 4307
 Schuster, D. J. 4900
 Schuster, E. 6809, 7220
 Schuster, J. 4254
 Schuster, J. C. 2987
 Schuster, M. F. 748, 10565
 Schutte, F. 4631
 Schütz, N. 11631
 Schuytema, G. S. 965
 Schwalbe, C. P. 10952
 Schwartz, A. 515, 4720-4721
 Schwartz, D. A. 8107
 Schwartz, L. M. 9254
 Schwartz, M. 6877
 Schwartz, M. B. 97
 Schwartz, M. D. 5560
 Schwartz, R. 1908
 Schwarz, A. 7260, 11892
 Schwarz, M. 6314, 8238, 8560, 8875
 Schwarzenbach, R. P. 9095
 Schwedt, G. 9089
 Schweizer, C. 6111
 Schweizer, H. 463, 975
 Schweizer, M. 2480
 Schweizerische Zeitschrift für Obst- und Weinbau 3751
 Schwemmminger, H. R. 2598
 Schylter, F. 10973
 Scooble, M. J. 11803
 Scott, A. I. 4308
 Scott, D. T. 2212
 Scott, H. A. 5103, 8006
 Scott, J. A. 1548
 Scott, J. G. 8958
 Scott, J. K. 4575, 6641
 Scott, M. P. 11367
 Scott, P. R. 5143, 5239
 Scott, R. A. 4617
 Scott, R. R. 6785
 Scott, S. M. 7327-7328
 Scott, V. 8128
 Scriber, J. M. 2284, 2319, 4003, 6661, 7952, 10896, 10967
 Scudder, G. G. E. 3247
 Scultz, M. R. 9097
 Seabrook, W. A. 1570
 Seabrook, W. D. 2707, 6416
 Seaby, D. 6860
 Seager, R. D. 10992
 Seal, D. R. 1698, 7827
 Seaman, A. J. 11623
 Seaman, W. S. 9670
 Sears, M. K. 2806, 4835, 4886, 7778, 10833
 Seastedt, T. R. 832, 7015, 10015
 Seber, G. A. F. 5748
 Sebök, P. 6212
 Sechser, B. 2742, 4762
 Sedivý, J. 2097, 4012
 Sedlacek, J. D. 5625, 8475, 10870
 Seely, M. K. 6370
 Seem, R. 1583
 Seeras, N. R. 244
 Seevers, K. P. 7414
 Segalen, J. L. 3199
 Segarra, A. 1714
 Segarra, C. 5353
 Segarra-Carmona, A. 9804, 10067
 Segarra-Carmona, A. E. 1493, 1526-1527, 3723, 9857-9858
 Seger, J. 4463
 Segers, H. 4693
 Segers, R. 1837
 Seghal, S. S. 7398
 Segnal, F. 4216
 Segnini, D. 636
 Segnini, S. 635, 637-638
 Segovia, V. 9562
 Seguni, Z. 1217
 Sehgal, S. M. 6717
 Sehgal, S. S. 1154, 6994, 7847
 Sehgal, V. K. 2238, 5832
 Sehnal, F. 2234, 2267, 3305, 11330
 Schnert, M. 7381
 Seiber, J. N. 2053, 5216, 5635, 6207, 8427, 10149
 Seibert, T. F. 5559
 Seidel, D. 756
 Seidel, J. L. 10402
 Seidel, K. 6181
 Seifert, B. 7482
 Seifert, G. 6214
 Seifert, J. 11049
 Seitz, K. A. 9084
 Sekeris, C. E. 3354
 Şekeroglu, E. 1736, 2910, 9293
 Sekeroglu, E. 3521-3522
 Sekhon, K. S. 7973
 Seki, H. 1366
 Seki, M. 9706
 Seki, T. 10301
 Sekita, N. 5396
 Selander, R. B. 1024, 4265
 Selemani, E. 2909
 Selezneva, E. S. 11303
 Selfa, J. 7505
 Selinger, L. B. 4133, 8010
 Selivanova, L. V. 2027
 Sell, C. R. 1901, 7992
 Sell, P. 3964, 6108, 8025, 11786
 Sellenschlo, U. 1910, 2995
 Sellers, E. K. 6113
 Selman, B. J. 2396, 7097
 Selvadurai, A. 31
 Selvarajah, N. 35
 Selvasundaram, R. 6988, 9904
 Semenov, V. V. 3265
 Semenova, A. G. 1447, 10794
 Semensi, V. 7354
 Semlitsch, R. D. 5044
 Semmens, T. D. 10641
 Sempionato, O. R. 4776
 Semple, J. L. 10507
 Sem yanov, V. P. 2518, 5485
 Sen, N. S. 7934
 Sen Gupta, R. 7205
 Sen-Sarma, P. K. 1781, 2565, 7537, 11873
 Senanayake, D. G. 8737
 Senanayake, N. 8111
 Senapati, B. 11732
 Senapati, S. K. 10114
 Senchowdhuri, M. 1307
 Şengonca, Ç. 681, 683, 1618, 1742, 2617
 Sengupta, K. 6543, 7084, 9676
 Sengupta, P. K. 2611, 8701
 Sengupta, T. 1820
 Senichev, M. Yu. 11409
 Senoo, K. 4205-4206, 12005
 Senrayan, R. 1289, 6544
 Senthamizhselvan, M. 2182, 7520, 9410, 11924
 Seo, E. H. 8770
 Seo, E. W. 103
 Seo, S. J. 9263
 Seo, S. T. 10269
 Sepahi, A. 692
 Seprös, I. 8312, 8592, 8596, 11832
 Sere, A. 4195
 Serez, M. 2950
 Sergeev, M. G. 141, 3478
 Sergeeva, T. K. 4537
 Serit, M. 2215
 Serodio, R. dos Santos 7988
 Serpone, N. 6140
 Serra, L. 5353
 Serrano, J. M. 4613
 Serrano, M. 2822
 Serratos, J. A. 7983
 Service, P. M. 2186
 Seshu, D. V. 9600
 Sesma, P. 9190
 Šestović, M. 11742
 Setarugsa, P. 3602
 Seth, P. K. 10140
 Seth, R. K. 7398, 7847
 Sethi, C. L. 586
 Sethi, G. R. 8088, 11057
 Sethunathan, N. 7192
 Setokuchi, O. 9526
 Seung, Y. C. 6158
 Seurinck, J. 7122
 Sevacherian, V. 9635, 9643, 11500
 Sevast'yanov, V. D. 5455, 9542
 Severson, R. 757
 Severson, R. F. 707-708, 758, 4888, 6930
 Sewall, D. 4543
 Seward, R. W. 5881
 Sewify, G. H. 10552
 Sexena, A. P. 689
 Sexton, J. 1776, 5994
 Sexton, O. J. 4476
 Seyedoleslami, H. 692
 Seyfarth, E. A. 4524-4525
 Seymour, P. R. 1012
 Sgardelis, S. P. 7034
 Sha C. Y. 10076
 Shaaban, M. N. 3207-3208
 Shaaya, E. 11334
 Shabanov, M. 3548
 Shackley, S. J. 4087
 Shaddock, J. A. 9087
 Shade, R. E. 6049
 Shafagati, A. 8871
 Shafee, S. A. 3244, 6271
 Shaffer, P. L. 4749
 Shaffi, S. A. 6196
 Shafik, H. L. 8705
 Shah, A. H. 432, 863, 1883, 2836, 5471, 5646, 5766, 5828, 5877, 11573
 Shah, G. C. 6675
 Shah, N. K. 2338, 7651, 7685
 Shah, R. 6994
 Shaheen, F. 939
 Shahhosseini, M. J. 7088
 Shahid, A. S. 2527, 4917, 11043
 Shahin, A. 2834
 Shailaja, M. S. 7205
 Shakeel, M. A. 1511, 3745, 7701
 Shakoori, A. R. 1904
 Shalaby, F. F. 1722, 5447
 Shalimov, I. I. 3555
 Shalom, U. 7333
 Shamshev, I. V. 3941
 Shane, C. M. 9413
 Shang, C. C. 5279
 Shanholtz, V. O. 6191
 Shani, A. 8946-8947
 Shankar, G. 4661
 Shanks, C. H., Jr. 9654
 Shanmugasundaram, M. 7142
 Shant, P. S. 3825, 7759
 Shao, J. G. 4958
 Shao, T. H. 6343
 Shapir, N. 486
 Shapiro, A. M. 2151, 2161, 2300, 3358, 9327
 Shapiro, I. D. 1622, 7551, 10556, 12024
 Shapiro, M. 3006, 6097, 11824
 Shara, M. A. 10133
 Sharaby, A. 5126, 10084
 Sharafutdinov, Sh. A. 741
 Share, M. R. 2172
 Sharkey, A. G., Jr. 164
 Sharkey, M. J. 9451, 10472
 Sharkov, A. V. 4539-4540, 6591
 Sharma, A. 966, 974, 5497, 6222, 7099, 11216
 Sharma, A. K. 8725
 Sharma, A. P. 7859
 Sharma, B. 5726
 Sharma, B. B. 6900
 Sharma, B. L. 11054
 Sharma, B. R. 1631
 Sharma, C. M. 6501
 Sharma, D. D. 11499
 Sharma, D. R. 2770-2771, 7753, 9708, 11660
 Sharma, G. P. 7218
 Sharma, G. S. 5052
 Sharma, H. C. 1689, 3722, 5846, 8158, 8518
 Sharma, J. C. 7859
 Sharma, J. K. 11718
 Sharma, J. P. 747, 2912
 Sharma, K. 6042, 7099
 Sharma, K. C. 9763
 Sharma, M. C. 4598, 4810, 5576, 11296-11298
 Sharma, M. L. 6708, 6909, 8648, 10024
 Sharma, M. M. 2238
 Sharma, N. N. 6720
 Sharma, O. P. 9279
 Sharma, P. 7783
 Sharma, P. C. 4793
 Sharma, P. C. 6973
 Sharma, P. L. 611, 8101
 Sharma, R. 5504, 6594
 Sharma, R. C. 7285
 Sharma, R. K. 6042
 Sharma, R. N. 3922, 6216, 6428, 11704
 Sharma, R. P. 8067, 8174
 Sharma, S. 5097, 11678
 Sharma, S. D. 7570
 Sharma, S. K. 2325, 2854, 6689, 11654
 Sharma, S. P. 3287, 8726, 11987
 Sharma, S. R. 8655
 Sharma, S. S. 9756
 Sharma, V. 1378, 1862
 Sharma, V. K. 2627, 3825, 7665, 7759, 11550
 Sharmila, M. 7192
 Sharov, A. A. 3045, 4538
 Sharp, J. L. 3079-3080, 8964, 11891-11892
 Sharpe, P. J. H. 11844
 Shasha, B. S. 9031, 11907
 Shashi 10264
 Shashi Verma 1648
 Shashidhar, S. D. 7602
 Shatrov, A. B. 2188
 Shatrova, T. S. 10479
 Shauger, A. 165
 Shaw, B. D. 472-473
 Shaw, D. D. 181, 3463
 Shaw, M. R. 3071, 4577, 11434
 Shaw, P. B. 8332
 Shaw, S. P. 2782

Shaw, S. S. 6875
Shawir, M. 6033
Shazali, M. E. H. 8969, 11031
Shchegel'skaya, E. A. 11493
Shchetkin, Yu. L. 6013
Shchetkin, Yu. Yu. 6013
She, C. R. 3101, 10229
Shea, P. 1884, 11797
Shea, P. J. 6006
Shearer, P. 9685
Shearer, R. C. 6011
Sheehan, W. 3854, 6573
Sheela, K. R. 781
Shegar, S. S. 9865
Shek, G. Kh. 11603
Shekharappa 8388
Shekharappa, K. J. 242
Shelepov, V. V. 10575
Shelke, S. S. 1725, 1898
Shelley, R. M. 2342, 3227
Shelley, T. E. 5008, 5042
Shelly, T. E. 6677
Shelton, A. M. 1621, 1623-1624, 1957, 3854, 6573, 6870, 7782, 7832, 9773, 10771
Shelud'ko, A. D. 382, 478
Shemesh, I. 11188
Shemkovitz, A. J. Roby- 6349
Shemshedini, L. 7231
Shen, B. F. 3685
Shen, C. P. 1894
Shen, C. Y. 3685
Shen, J. Y. 11563
Shen, S. K. 4382
Shen, Y. 7650
Shen, Z. X. 11689
Sheng, C. F. 1732
Sheng, J. K. 6551
Sheng, J. S. 9578
Sheng, X. C. 10614
Shenhmar, M. 1743, 6686, 9528
Shenton, T. 1995
Shepard, B. M. 426, 445, 3701, 6733, 10619, 10625
Shepherd, D. 3307
Shepherd, R. C. H. 3608
Shepherd, R. F. 7917, 9209, 10925
Shepherd, R. L. 4926, 5883
Sheppard, C. A. 7933, 10957
Sheppard, D. C. 6515
Sherasiya, R. A. 8721
Shereef, G. M. 1291, 3162
Sherekar, P. Y. 6193
Sherman, C. 6715
Sherman, M. 11980
Sherniyazova, R. M. 4726
Sherrrod, D. W. 1639
Sherstobitov, O. E. 2015
Sherwood, S. W. 9239
Shetlar, D. J. 5107, 10922
Shetty, K. K. 3077
Shevale, B. S. 1575
Shevchenko, V. B. 6121
Shevchuk, T. E. 6702
Shevchuk, V. K. 6702
Shewry, P. R. 3474
Shi, D. S. 3927
Shi, G. S. 1352
Shi, H. F. 11559
Shi, Q. G. 4175
Shiau, J. F. 5696
Shibao, M. 10679
Shibasaki, M. 10161
Shibata, E. 7927, 9943
Shieh, T. R. 7139
Shields, E. J. 6771, 7463, 9312, 11921
Shields, K. S. 10247
Shields, O. 3250
Shiga, M. 3750, 6133, 7022
Shih, C. I. 6989
Shih, C. J. 5171
Shih, T. L. 7183
Shitko, È. S. 257
Shijko, E. S. 6122
Shikov, E. V. 9738
Shimabuku, R. 9910
Shimada, K. 123
Shimada, M. 1918
Shimano, S. 10110
Shimanuki, H. 11077, 11112
Shimazu, M. 1946, 6878, 9948
Shimizu, I. 2532, 5527, 9233
Shimizu, K. 9901, 10061
Shimizu, M. 7125, 8011, 8018
Shimizu, S. 1960, 3098-3099
Shimizu, T. 3782, 5303, 11324
Shimoda, M. 8408-8409
Shimomura, M. 6604
Shimura, E. 7619
Shin, B. S. 104
Shin, D. B. 1474
Shin, H. P. 8295-8296
Shin, S. C. 10909
Shin, W. K. 1206, 3747, 8275
Shin, Y. H. 10045
Shinbo, H. 3320
Shinde, C. B. 7697
Shinjo, G. 6595, 8075
Shinkaji, N. 8802-8803, 8805, 9288
Shinoda, T. 7787
Shinyaeva, L. I. 4216
Shioi, M. 1385
Shiotsuki, T. 10121
Shipp, J. L. 8973
Shiraga, T. 5295
Shirai, Y. 3622, 4832
Shiraishi, H. 5217, 6202-6203
Shirasu, Y. 6185
Shirata, F. J. 4860
Shirk, P. D. 3340, 9210
Shiro, K. 7769
Shirvani, M. 7067
Shiryaeva, N. V. 1802
Shishido, T. 10111
Shishkov, A. V. 8119
Shiu, W. Y. 2053
Shivakumar, A. G. 3092
Shivankar, V. J. 8519, 11589, 11612
Shivarova, N. I. 11094
Shivayogeshwara, B. 1782
Shivokene, Ya. S. 3401
Shmid, A. 6993
Shneider, R. 7751
Shobha, A. 4332
Shodiev, A. 2575
Shoemaker, C. A. 4756, 7782
Shoji, T. 7636
Shore, T. L. 7038
Shorey, H. H. 6045
Shorthouse, J. D. 5710
Showers, W. B. 3375, 3391, 8273, 9357, 9564, 9633, 10592, 11544
Showler, A. T. 362, 3439, 6683
Shreeve, T. G. 9321
Shrimpton, G. M. 10912
Shrivastava, K. K. 3882, 8744
Shrivastava, S. K. 7633
Shternshis, M. V. 5794
Shtreints, L. 6307
Shu, C. 4934
Shu, C. E. 4214
Shu, S. Q. 7525
Shuey, J. A. 10764
Shufran, K. A. 2638
Shukla, A. 5453
Shukla, B. C. 11568
Shukla, D. D. 11084
Shukla, G. S. 6388
Shukla, J. P. 8120
Shukla, K. K. 6735, 11537
Shukla, R. M. 5453, 6047, 8088
Shukla, R. P. 585
Shukla, R. S. 10286
Shukla, V. S. 8067
Shukle, R. H. 376, 9537, 9539
Shukovskii, S. G. 6763
Shultz, J. W. 6275
Shumaev, K. B. 8119
Shurovenkov, Yu. B. 322, 378
Shuto, Y. 9082
Shuvalov, V. F. 3380, 9296
Shvedov, A. N. 4353
Shvetsova, L. 10867
Shvitra, D. I. 2722
Shyam, K. R. 10526
Shykoff, J. A. 9395
Sibley, P. K. 5203
Sibly, R. M. 9172-9173
Sibma, L. 12016
Sicard, N. A. E. von. 2230
Sicchetti, L. 2713
Sichkar, V. I. 10805
Siddappaji, C. 3961
Siddig, S. A. 6625
Siddiqi, J. 4941
Siddiqi, J. I. 5301, 5373
Siddiqi, M. R. 5759
Siddiqi, O. 9274
Siddiqui, B. S. 1985
Siddiqui, K. H. 411, 416, 11413, 11552, 11555
Siddiqui, M. K. J. 7174
Siddiqui, M. S. 5097
Siddiqui, S. 1985
Sidhu, A. S. 1728, 2920, 5891, 6962-6963
Sidhu, D. S. 1051, 6593
Sidhu, G. S. 9598
Sidhu, H. S. 5218, 9778
Sidhu, R. 6778, 6850
Sidhu, S. S. 3821
Sidky, M. M. 7174
Siebenthal, J. de 4879
Siebers, J. 3185
Siebinga, R. 1103
Sieburth, P. J. 4095
Sieburth, S. McN. 8083-8084, 9061
Siegel, C. 8288
Siegel, J. P. 4654, 9087
Siegel, M. R. 7676
Siegfried, B. D. 9550, 11161
Siepel, H. 4544, 5681, 7421
Sifontes, J. L. A. 428, 1746
Sigaran Tarragó, M. F. 4942
Sighamony, S. 4072
Signor, G. 8994
Sigurdson, W. J. 5545
Sigvald, R. 412, 9831
Sikka, H. L. 1219
Sikorowski, P. P. 9366
Sikura, A. I. 485, 1679, 9021
Silaev, A. I. 1427
Silberglid, R. E. 1762
Silcox, C. A. 7839
Silfverberg, H. 3242-3243
Silk, P. J. 718, 3023, 6313
Sillans, D. 3153
Sillén-Tullberg, B. 2150, 7563
Sillman, D. Y. 8538
Sills, W. M. 9546
Silva, C. M. da 1656
Silva, F. C. da 8449
Silva, I. da 5313-5316
Silva, J. E. F. da 8502
Silva, J. M. 3817, 6838
Silva, J. P. 4899
Silva, M. 2058
Silva, M. E. da 7480
Silva, M. J. M. 11890
Silva, O. A. da 8334
Silva, P. 8968
Silva, R. F. P. 6704
Silva, R. M. P. C. da 5315
Silva, S. H. G. da 11890
Silva, S. M. T. 8335
Silva Amorin Neto, M. da 4901
Silva Cunha, C. da 4331
Silva Garcia, J. J. da 4949
Silvain, J. F. 11075
Silveira, J. C. F. da 8478
Silveira Neto, S. 759, 8982
Silver, I. S. 3189
Silverstein, R. M. 3313
Silvestre, L. H. 745, 3656
Silvestri, M. de 7335
Silvo, R. 9824
Silvy, C. 999
Simandl, J. 5978
Simard, L. G. 8612
Simarski, L. T. 10836
Simberloff, D. 3990, 10997
Simchuk, G. V. 1679
Simchuk, P. A. 728, 1679
Simeonov, S. P. 6762
Simizu, K. 9077-9078
Simmonds, M. J. S. 10165
Simmonds, M. S. J. 1916, 3641, 4220, 7577, 10159, 10537, 11981, 12012
Simmons, A. M. 9803, 11075
Simmons, L. A. 6375
Simmons, M. S. 10147
Simojoki, P. 9824
Simon, C. 8219
Simon, M. 11224
Simón Benito, J. C. 4383, 4987
Simonaitis, R. A. 6478, 11030
Simongulyan, N. 5873
Simonishvili, R. A. 4783
Simonova, A. S. 739
Simonova, O. B. 9277
Simons, W. R. 1941, 6087
Simova-Tošić, D. 11388
Simpson, D. R. 9726
Simpson, G. B. 4612, 7811, 11659
Simpson, K. B. 8490
Simpson, S. J. 11316
Sims, S. R. 4105
Simthhisler, C. L. 7719
Simwat, G. S. 5891, 6962-6963
Sinbuatong, N. 9751
Sinchaisri, N. 6404, 7579
Sinclair, E. R. 3062
Sinclair, P. 8658
Sinden, S. L. 5843
Sinčev, S. Yu. 3422
Sing, G. 2896
Singal, S. K. 854, 6270, 10049
Singer, M. C. 5555
Singh, A. K. 9298, 10140
Singh, A. P. 186
Singh, B. 709, 6904, 8088, 9777
Singh, B. B. 6049
Singh, B. B. P. 2782
Singh, B. D. 7084
Singh, B. K. 7
Singh, B. P. 359, 361, 10786
Singh, B. R. 1670
Singh, B. U. 456, 3719
Singh, C. L. 2014
Singh, C. P. 5864
Singh, D. 618-619, 646, 2613, 5097, 6997, 9855, 10780
Singh, D. P. 1219, 7859, 9529
Singh, D. R. 4173
Singh, D. S. 3159, 11986
Singh, G. 584, 1719, 1721, 2896, 3937, 4671, 5218, 6951-6952, 8105, 9778, 9860, 10853, 11676
Singh, H. 325, 618, 1578, 2831, 5785, 6884, 9769, 11193, 11733-11734
Singh, H. M. 3875, 8809
Singh, H. P. 6900
Singh, I. 1619
Singh, I. D. N. 4852
Singh, I. P. 11760
Singh, J. 320, 1728, 3647, 3937, 5654, 5813, 6736, 7970, 8218, 9598, 9820, 9920, 11773
Singh, J. B. 7829
Singh, J. P. 416, 3537, 10264, 11771
Singh, K. 62, 611, 3825, 6038, 7093, 7759, 11375
Singh, K. G. 3427
Singh, K. J. 1629, 4854, 6894, 6898-6899, 8713, 9800, 9808, 9810, 11887-11888
Singh, K. M. 643, 645, 669, 1649, 2825, 2830, 2840, 2851, 2897, 5833, 10743-10744, 11679, 11764
Singh, K. N. 685, 6734
Singh, L. 614, 7059, 9769, 11194
Singh, L. J. 1362

- Singh, M. 2892, 3784, 5888, 6973, 11639, 11644
Singh, M. N. 5841, 6918
Singh, M. P. 6732, 6847, 11519, 11561
Singh, N. 44-45, 48-49, 11061
Singh, N. N. 2898
Singh, N. P. 6503, 6900
Singh, O. 672
Singh, O. P. 1629, 2832, 2867, 2976, 3713, 3716, 3867, 4854, 6282, 6894, 6898-6899, 6902, 6909, 7370, 8699, 8708, 8713, 9800, 9808, 9810, 11887-11888
Singh, P. 2774, 4421, 11363
Singh, P. P. 4598, 4810, 4854, 5576, 11296-11298
Singh, R. 355, 893, 1308, 1360, 2287, 2334, 2484, 3154, 3573, 3861, 3869, 3875, 4852, 5448, 5468, 6812, 6904, 7120, 7875, 8087, 9740, 9777, 11290, 11735, 11972, 11982
Singh, R. B. 5662, 10086
Singh, R. K. 4685, 10580
Singh, R. N. 643, 645, 669, 2825, 2830, 2840, 2851, 2897, 5833, 10792
Singh, R. P. 361, 1423, 2042, 2054, 6915, 11502
Singh, R. S. 786
Singh, S. 2830, 6853
Singh, S. D. 7797, 7810, 11719
Singh, S. J. 10889
Singh, S. K. 963, 11992
Singh, S. P. 617, 659, 1651, 2761, 2865, 2886, 3809-3810, 4530, 5466, 6746, 7056, 7663, 8386, 8717, 9604, 10386
Singh, S. P. N. 399
Singh, S. V. 3503-3504, 3718, 7110, 7840-7841, 7843, 11699, 11757-11758
Singh, T. 1095, 6611
Singh, T. H. 11773
Singh, T. K. 3754, 3837
Singh, T. P. 10489
Singh, T. V. K. 7411, 11672, 11798
Singh, U. C. 5830
Singh, V. 867
Singh, V. K. 6047
Singh, V. P. 10127
Singh, V. V. 7857
Singh, Y. 659, 1651
Singh, Y. N. 939
Singh, Y. P. 614, 2800, 3718, 7812, 11699
Singh, Z. 854, 3013, 3840, 5785
Singhal, K. C. 8143
Singla, M. L. 9820
Sinha, A. K. 3860
Sinha, M. M. 4852
Sinha, N. K. 7835
Sinha, P. 7990
Sinha, P. B. 7934
Sinha, P. P. 3480, 8320
Sinha, R. C. 10372
Sinha, R. N. 1902, 8945, 10026, 11876
Sinha, R. P. 11700
Sinha, S. N. 8717, 9051
Sinha, S. R. 11694, 11975
Sinitsin, V. V. 7818
Sircar, P. 3159
Sirotnina, M. I. 3541
Sisson, V. 757
Sisson, V. A. 758
Sisto, A. M. 9510
Sitaramaiah, S. 5897, 8788
Sites, R. W. 3738, 9331, 9393, 9512, 9524
Sithanantham, S. 3868, 5827, 6910
Sitkiewicz, D. 3188
Sittig, P. 9178
Sivakumar, C. V. 9007
Sivaprakasam, K. 2036, 4088, 5632, 7853, 10022, 11055
Sivec, I. 11388
Sivinski, J. 24, 2255, 3378, 4364, 7504, 10323
Sivusaari, L. 1843
Sjeung, Y. C. 6157
Sjoblad, R. D. 8174
Skaer, H. 4290
Skaf, J. S. 5596, 5802, 7790
Skatulla, U. 1826, 3040, 4045, 5071, 7079, 8911, 10987
Skewes, M. A. 6016
Skibińska, E. 1329, 2441
Skinner, I. 2105
Skinner, W. S. 1988, 10435
Skipp, R. A. 2689
Skirkevičienė, Z. 6310-6311
Skirkevičius, A. 6310, 6569
Skirkyavichene, Z. Yu. 6310-6311
Skirkyavichyus, A. V. 1007, 6310, 6569
Sklyarov, N. A. 526
Skorpan, V. G. 1715
Skrzypczyńska, M. 5986, 9997
Skuhrová, M. 5250
Skuhrový, V. 2951
Skula, G. S. 2778
Skur'yat, A. F. 531
Skuyane, M. 1210
Skyberg, N. 202
Slabezki, Y. 1255
Slabospitskaya, E. L. 2804
Slacanin, I. 9047
Slagle, R. L. 1865
Sláma, K. 2297, 4300
Slansky, F., Jr. 1096, 4591
Slater, G. P. 9758, 9775
Slater, J. A. 11591
Slaughter, D. C. 4080
Slaughter, G. W. 10945
Slavgorodskaya-Kurpieva, L. E. 2720
Slawewski, R. A. 9034, 11237
Slaytor, M. 4285
Slessor, K. N. 10007
Slin'ko, V. N. 11967
Sliipinski, S. A. 8895
Slob, W. 3518
Slobodyanyuk, V. Ya. 11510
Slosser, J. E. 2609, 4617, 5603, 5886, 7870
Slotała, A. 4878
Slott, V. 5198
Slovák, M. 3345, 3558, 3569-3570
Slyusarenko, O. K. 3924
Smalley, E. B. 1774, 1787
Smart, L. E. 3090
Smatana, L. 2703
Smelser, R. B. 3391, 8273
Smelyanets, V. P. 10575
Smet, G. de 603
Smet, H. 7979
Smetana, A. 7306, 10004, 10243
Smetnik, A. I. 529, 847, 8935
Šmid, H. M. 2381
Smietanko, A. 10312
Smilanick, J. L. 7115
Smiley, J. T. 1814
Smiley, R. L. 6001
Smilowitz, Z. 8742, 9835
Smirle, M. J. 10536, 11199
Smirnov, A. M. 6527
Smirnova, G. V. 3660
Smirnykh, V. M. 674, 2858
Smith, A. 6111
Smith, A. D. 10620
Smith, A. M. 5608
Smith, A. R. W. 2064
Smith, B. E. 11862
Smith, C. D. 10354
Smith, C. M. 4161, 10178
Smith, D. 7747, 7755, 7757
Smith, D. A. 8813
Smith, D. A. S. 6656, 7387
Smith, D. C. 543, 11379
Smith, D. G. 3519
Smith, D. H. 4926
Smith, D. L. 4642, 9038
Smith, D. R. 200, 2425, 2954, 2970, 5975
Smith, D. S. 5384
Smith, E. L. 10928
Smith, G. E. 7258
Smith, H. A. 10873
Smith, H. R. 4020
Smith, I. M. 6104
Smith, I. R. L. 5112
Smith, J. D. 5049
Smith, J. J. B. 249
Smith, J. W. 944, 3170, 7865, 8716
Smith, J. W., Jr. 2632, 3889, 4637, 4648, 4868, 5584, 5621, 10587
Smith, K. A. 5652, 9593
Smith, K. G. 5357
Smith, K. G. V. 2363, 7264
Smith, M. A. 7689
Smith, M. A. H. 1533, 9637, 10652
Smith, M. J. 10983
Smith, M. T. 7719
Smith, P. J. S. 11320
Smith, R. F. 8587
Smith, R. H. 6431, 9172-9173
Smith, R. K. 11210, 11422
Smith, R. L. 2470
Smith, R. M. 11148
Smith, S. 4874
Smith, S. C. 7445
Smith, S. L. 4733, 5333
Smith, S. M. 7939
Smith Meyer, M. K. P. 161
Smithhisler, C. L. 4310, 7736
Smits, J. M. M. 5223
Smits, P. H. 888, 6087
Smittle, B. 10323
Snawder, J. E. 12000
Snay, J. 6077
Sneed, L. 10081
Snell, P. 11226
Snelling, R. R. 5429, 8859
Snodgrass, G. L. 6892, 9502
Snow, A. A. 1399
Snow, J. P. 1658, 1661
Snow, J. W. 8875, 11630
Snyder, J. C. 7836, 8760
Snyder, J. K. 9048
So, D. P. 6079
Soares, G. C. 5581
Sobhian, R. 329, 1379, 6643
Sobhon, P. 3602
Sobotka, J. 3455
Sobrado, C. E. 2637
Sobrier, M. L. 7326
Socha, R. 4215, 4344, 4347-4348, 5177, 5331
Soczyński, G. 8466
Sodeoka, M. 10161
Soderlund, D. M. 3168
Soderquist, J. A. 5299
Soderstrom, D. 11984
Soderstrom, E. L. 8278, 10721
Sodhi, S. K. 1051, 6593, 10775
Soelen, J. van 5572
Soeriaatmadja, R. E. 9832
Sofer, S. 590-591, 4806-4807, 11682
Sogawa, K. 9585
Sohal, S. K. 5332
Sohati, P. H. 6652
Sohi, A. S. 5010, 6903, 9733, 11664
Sohi, A. S., Sr. 9733
Sohi, S. S. 11947
Sohn, H. D. 9262
Sohn, K. W. 293-294
Sokei, Y. 2217
Sokoliuk, T. 5321
Sokolova, D. V. 546
Sokolova, Yu. Ya. 8990
Sokolowski, M. B. 6411
Solbreck, C. 784, 7563, 7569
Soldaat, L. L. 10512
Soldán, T. 2260, 5030, 8179
Solervicens, J. 2146, 4258, 4400, 4596
Solheim, H. 10946
Solignac, M. 3438, 6475
Solinas, M. 3315, 3975
Solis, M. A. 7943
Solomatin, V. M. 216
Solomennikova, I. V. 3160
Solomon, J. D. 2954, 5718, 8576
Solomon, K. R. 6172
Solomon, S. 4656, 8522
Soltani, N. 8938
Soltan, J. B. 4125
Solter, L. F. 11939
Softyk, D. 7953
Somani, A. K. 1686
Somasundaram, L. 7225
Somchoudhury, A. K. 5478-5479, 7711, 10664, 11619
Somerfield, K. G. 7726, 8001
Somlyay, I. M. 11128
Sømme, L. 4362
Somme-Martin, G. 7326
Somogyi, T. 8596
Son, D. S. 8618
Son, K. C. 707-708, 4888, 6930
Son, Y. 5633
Sone, K. 7912, 9929
Song, G. I. 8572
Song, H. Y. 5487
Song, K. E. 295
Song, Q. M. 5487
Song, S. I. 2752
Song, S. L. 11662
Soni, G. L. 10127
Soni, I. 9074
Sonne, H. 2946
Sonneman, E. 10377
Sonnino, A. 1693
Sonobe, H. 6287
Soomro, B. A. 984
Soon, S. C. 7775
Soós, A. 5232
Soós, J. 6212
Soper, R. S. 1220, 1463, 1479, 1946, 4154, 5128, 5136-5137, 7150
Sopp, P. I. 3516, 4967
Során, V. 3195
Sordi Batista, J. G. de 4899, 4901
Sorensen, E. L. 1534, 2681, 7691-7692, 7696
Sorensen, J. T. 6247
Sorensen, K. A. 6433
Sorenson, C. 7304
Sorenson, C. E. 11753
Sorg, M. 1335
Soria, S. 819
Sorin, M. 1840
Sorochnikaya, A. M. 922
Soroka, S. V. 4615
Soroker, V. 1078
Sorokina, A. P. 1288, 4734
Sortino, O. 1710
Sosa, H. 4622
Sosa, H. M. 4859, 6764, 6890
Sosa, O., Jr. 4609, 10543
Sotchenko, V. S. 10605
Sotelo, G. 11406
Sotheeswaran, S. 1412, 9499
Sotherton, N. 8457
Sotnikov, A. N. 1326-1327
Sotomayor-Ríos, A. 3723
Souliotis, V. L. 76, 1137
Sourokov, B. 7995
South, A. 475
South Africa, Institute for Commercial Forestry Research 5040-5041
South Africa, South African Avocado Growers' Association 2085
South Africa, Sugar Association Experiment Station 1422, 9133
South Africa, Sugar Technologists' Association 7583
Southcott, R. V. 2485, 7313

Southwood, T. R. E. 7035, 8264
Souza, B. 245, 9718
Souza, H. M. L. de 5105
Souza, J. C. de 8756
Souza, V. B. V. de 5313-5316
Sower, L. L. 10927
Soyer-Gobillard, M. O. 6171
Spaeth, D. D. 1070
Spain, Ministerio de Obras Públicas y Urbanismo 6139
Spain, Sociedad Hispano-Luso-Americana de Lepidopterologia 2073
Spalding, A. 9341, 9619
Spalding, J. B. 1149
Spangler, D. P. 10154
Spangler, H. G. 86, 3379, 11946
Spangler, S. M. 8606
Spann, J. W. 3181, 11999
Sparks, A. N. 914-915, 2932
Sparks, L. A. 11220
Sparks, T. C. 2914-2915, 7339, 8775, 9063, 10801, 11160
Špatenka, K. 9148
Spaull, A. M. 1441
Specker, D. R. 6771
Speed, C. 11504
Speirs, R. D. 11875
Spektor, M. R. 3972
Spence, K. D. 7503
Spence, R. A. 10349
Spencer, I. M. 6368
Spencer, J. L. 719
Spencer, K. A. 6648
Spencer, N. R. 5551, 6631
Spencer, W. F. 4671
Sperlich, D. 4363
Sperveslage, H. 10135
Sphecos 5229
Spiess, E. B. 10342
Spike, B. P. 2639, 11548
Spiller, N. J. 10337, 11371
Spiridonova, S. E. 6062
Spollen, K. M. 6801
Spomer, S. M. 6272, 8445
Sponsler, R. C. 6603
Sposetti, G. 2713
Spradberry, J. P. 9983
Spratt, E. C. 8950
Sprick, P. 5070
Spring, J. H. 7318-7319, 9258, 10305
Springer, T. L. 3658, 4601, 5678
Sproccati, M. 3500
Sprudzha, D. R. 3117, 11967
Spurr, D. T. 4440
Spyropoulos, B. 5346
Sran, C. S. 11673
Sreedharan, K. 2934
Sreekumar, S. 2179, 2192
Sreenivasa, M. N. 11204
Sreng, I. 7344
Sri Lanka, Coconut Research Board 7292
Sridevi, R. 3329, 6290
Sridevi, S. 11325
Sridhar, R. P. 7662
Srikant Kulkarni 10496
Srikanth, J. 1602, 2828, 3979
Srimannarayana, G. 1986
Srinivas, M. V. 3572
Srinivas, P. R. 2849, 9818, 11464
Srinivasan, C. N. 10496
Srinivasan, K. 2805, 2816, 4196, 9754
Srinivasan, M. V. 8250
Srinivasan, R. 7808
Srinivasan, T. E. 7627
Sriraman, P. K. 10128
Srivastava, A. 10237
Srivastava, A. S. 3503-3504, 3718
Srivastava, B. G. 169, 11405, 11410
Srivastava, B. K. 3882
Srivastava, C. N. 11299
Srivastava, C. P. 660, 5827, 9819
Srivastava, G. P. 1668
Srivastava, J. P. 12021
Srivastava, K. M. 10786, 11694, 11877, 11975
Srivastava, K. P. 2273, 9219, 11583, 11587, 11766
Srivastava, M. 5468, 11290
Srivastava, M. K. 2042
Srivastava, P. N. 2484, 5448, 9740, 10316
Srivastava, R. C. 6503
Srivastava, R. P. 4799, 4801, 5647, 9819, 11675, 11677-11678, 11680
Srivastava, S. 11058
Srivastava, S. K. 6881, 11568, 11888
Srivastava, V. C. 1668
Srivastava, Y. N. 3505, 5052
St-Louis, N. 2024
Stabentheiner, A. 2435
Stack, A. E. 1228
Stacpoole, C. A. 2397
Staddon, B. W. 4551
Stadelbacher, E. A. 69, 9502
Städler, E. 6421, 7781
Städler, G. 5799
Stadler, T. 1203, 2908, 3929, 6983
Stadnitskii, G. V. 5995, 6009
Stafford, C. J. 3441
Stafford, S. G. 1865
Stahle, P. P. 6774
Stähls, G. 9752
Stahmer, I. 4326
Stahr, H. M. 8132
Staikou, A. 5540, 6619, 9485
Staines, C. L., Jr. 4678
Stairs, G. R. 4109, 11934
Stall, G. 3217
Stalle, J. van 4266, 11681
Stamopoulos, D. C. 851
Stamou, G. P. 7034, 9325
Stamp, J. 9918
Stamp, N. E. 3629, 10443
Stampfer, J. H. 959, 2755, 3184, 4191
Stampfer, J. F. 8069
Stanarius, A. 5770
Stanek, J. 2945
Stanford, A. 7428
Stangelberger, J. 9320
Stanghellini, M. E. 1524
Stanker, L. H. 6484
Stanley, B. H. 4756
Stansfield, G. 11016
Stansfield, J. 7223
Stansly, P. A. 5815
Stanton, M. L. 1399
Staples, R. C. 3110-3111, 10066, 11082
Stapleton, A. 2248
Stara, J. F. 2063
Starczewski, J. 11533
Staręga, W. 8294
Starick, N. T. 6035
Starilova, S. V. 10367
Stark, J. D. 5185, 11615, 11980
Stark, R. W. 8843
Stark, W. S. 8249
Starks, K. 6701
Starks, K. J. 1505, 5679
Starmer, W. T. 10525
Starostin, S. P. 380, 644, 1427, 3660
Starr, C. 4432
Starr, C. K. 3381, 4500
Starratt, A. N. 5094, 8931
Startin, J. R. 11017
Starý, B. 2097
Starý, P. 1281, 1392, 2097, 4011, 4492, 5030
Starzyk, J. R. 9995
Stäubli, A. 5700-5702, 5704-5705, 5707-5708, 5720
Staver, K. 10152
Stazi, M. 4586
Stebbins, H. 7365, 8252
Stechmann, D. H. 4085
Steck, G. J. 2141-2142, 6744
Steene, F. van de 603, 9770
Stefaniak, Z. Machowicz-8610
Stefano, G. B. 7359
Steffen, G. 8055
Steffens, J. C. 1690, 2884, 7565
Steghaus-Kovac, S. 3483
Stehr-Green, P. A. 960, 2019
Stein, E. R. 11047
Stein, J. D. 1776, 2999
Stein, M. B. 8324
Stein, U. 1413
Stein, W. 468, 1897
Steinar, H. 11105
Steinberg, K. K. 10134
Steinbrecht, R. A. 3588
Steinbrink, H. 6511
Steiner, H. 1753, 2195, 4764, 5308
Steiner, J. R. 8016
Steiner, W. W. M. 1300, 3545
Steinhart, H. 8108, 11993
Steininger, M. K. 7956
Steinkraus, D. C. 1951
Steinman, D. 967
Steinmann, H. 11250
Stelleman, P. 7042
Stelljes, M. E. 8427
Stelter, H. 4260
Stemshorn, B. 1016
Stenger, D. C. 1396
Stenman, K. 6938
Stenseth, C. 2942, 6876, 6944, 8809, 10674, 10902
Stenseth, N. C. 11836-11838
Stepanov, V. M. 1920
Štepanovičová, O. 10996
Stephen, W. P. 4025
Stephens, C. T. 1607
Stephens, D. E. A. 6398
Stephens, D. W. 2501
Stephens, G. T. 3530
Stephens, P. M. 10654
Stephenson, J. W. 305
Šterba, J. 5030
Sterk, G. 560, 10673, 10694, 10706
Sterling, P. H. 5954, 8063, 9505
Sterling, W. L. 2906, 3938, 4925, 4939, 5885, 5890, 6978, 7863, 8777
Stermitz, F. R. 5555, 6628, 8887-8888, 9913
Stern, V. M. 8791
Stern, Y. 1255
Sternner, K. 10470
Sternlicht, M. 9723
Sterzyńska, M. 1190
Steven, D. 2009
Steven, D. de 3958
Stevens, L. 3010, 5375, 11892
Stevens, L. H. 8916
Stevenson, A. B. 8734
Stevenson, J. C. 10152
Stevenson, P. A. 4442
Stevenson, R. D. 6328
Steward, V. B. 3726, 6749
Stewart, G. 687
Stewart, J. G. 4835, 6921, 7778
Stewart, J. G. G. 2806
Stewart, J. W. 6905
Stewart, K. A. 6756
Stewart, K. M. 471, 6755
Stewart, R. K. 6652, 8588, 8733, 11646
Stewart, S. D. 4939, 5885
Stewart-Oaten, A. 6588
Stiedl, O. 8271
Stiles, B. 2232
Stiling, P. 6405, 10997
Stille, B. 1843
Stimac, J. L. 6512, 8322
Stimal, J. L. 4862
Stine, O. C. 5542
Stinner, B. R. 8410, 10963
Stinner, D. H. 3619
Stinner, R. E. 1312, 8337
Stipanovic, R. D. 9455, 11167
Stipes, R. J. 5019
Stirpe, F. 9105
Stoakley, J. T. 1804, 3026
Stobbs, L. W. 1614
Stober, Q. J. 6198
Stobiecki, S. 2874
Stock, A. J. 8867
Stock, W. D. 10971
Stockel, J. 1846
Støen, M. 1819
Stoetzel, M. B. 1763, 9164
Stoffolano, J. G., Jr. 5326
Stohs, S. J. 10133
Stoka, A. M. 10156, 11235
Stone, G. N. 8436
Stone, J. F. 8132
Stone, J. V. 102
Stone, N. D. 6975
Stone, T. B. 4105
Stone, T. F. 8436
Stonehouse, J. M. 9361
Stoner, K. A. 1621, 1623-1624, 9759
Stoppa, G. 6811
Storck-Weyhermüller, S. 1433, 3662
Storey, A. W. 7228
Storey, G. K. 10069
Storey, K. A. 317
Storey, K. B. 58, 2305, 3368, 6402, 9481
Storozhuk, E. M. 2708
Storr, A. L. 6775
Story, R. N. 3916, 9608
Stout, J. F. 6331
Stouthamer, R. 10477
Stoydin, G. 11990
Stoyer, T. L. 9496
Stradioto, M. F. S. 10784
Stradling, D. J. 4459
Stralen, M. R. van 3518
Strambi, A. 4334, 6360, 9306
Strambi, C. 4334, 6360, 9306
Strand, M. R. 4484, 4526, 4857, 10444
Strang, R. H. C. 3311
Stránský, Z. 11141
Strapazzon, A. 2734, 5735
Strassmann, J. E. 6407, 8220
Strat, A. le 5452
Stratil, H. 5086
Stratton, J. W. 8099
Stratum, P. van. 6936
Straub, R. W. 4641
Strausfeld, N. J. 10289
Strauss, R. E. 5280
Strauss, S. H. 6010
Strauss, S. Y. 7935
Straw, N. A. 6418, 6666
Štrba, M. 11136
Strebler, G. 1002, 10384
Streett, D. A. 6504, 11078
Streinz, L. 6305
Strelke, M. 190, 5082
Stribley, D. P. 1441
Stribley, M. 10859
Strick, H. 1261
Stride, A. B. 5767
Striessnig, J. 55
Stritzke, J. F. 3743
Strjček, J. 4405
Stromborg, K. L. 8126
Strong, D. R. 6538
Strongman, D. B. 7144, 8993
Strübing, H. 9354
Struble, D. L. 9209
Strukova, S. I. 3897
Strümpel, H. 10
Strümpel, R. 10
Strunkova, Z. I. 2375
Strunnikov, V. A. 1361, 5529
Strunz, G. M. 8993
Stryker, C. J. 6383
Strykstra, R. J. 1395
Stuart, G. S. 2232
Stuart, J. J. 3351-3352
Stuart, L. C. 5739
Stubbs, H. A. 10945
Studdert, J. P. 11944

- Stufkens, M. W. 1398, 10553, 10581
 Stumpner, A. 5321, 8246
 Sturm, M. M. 6978
 Sturrock, R. N. 10912, 10915
 Stuteville, D. L. 1534, 7691-7692, 7696
 Stutte, G. W. 10648
 Styer, E. L. 11941
 Styfi-Bartkiewicz, B. 8879
 Stylianidis, D. 9696
 Stynen, D. 2258
 Štys, P. 4287, 4541
 Su, C. Y. 1204, 4818, 4889, 5110, 10835
 Su, H. C. F. 1415, 7098
 Su, H. J. 10740
 Su, N. U. 2528
 Su, N. Y. 3576, 4553, 8959, 9458, 11013, 11481
 Su, T. H. 1552, 3769, 9662
 Subba Rao, P. V. 7031
 Subbaiah, K. R. 665
 Subbiah, K. 2935
 Subchev, M. 8540
 Subedar Singh 2830
 Subias, L. S. 11863
 Subrahmanyam, B. 360, 929, 4341, 5415
 Subramaniam, M. 185
 Subramanian, A. N. 6208
 Subramanian, B. R. 4668
 Subramanian, S. 7617, 9007
 Subramanyam, B. 7108, 11880
 Subramanyam, B. H. 11029
 Sucheta 2483
 Sucheta, K. 672
 Suchita, M. G. 11881
 Suckling, D. M. 4955, 6814, 10700, 10877
 Sudan, Gezira Research Station 7298
 Sudan, Ministry of Agriculture and Natural Resources 2118
 Sudarmadji, D. 813
 Sudarwahadi, S. 3859
 Sudha, P. M. 3597, 4104
 Sudhaker, T. R. 855
 Sudheendrakumar, V. V. 1798, 1838, 7514, 10457
 Sudheer, M. J. 5829
 Sudjak S., M. 1464, 9582
 Sudo, M. 9467-9468
 Sudo, V. 4959, 9902
 Suesno, R. 700
 Suett, D. L. 6205
 Sufita, J. M. 2068
 Suga, T. 7169
 Sugahara, C. A. 3817, 6838
 Sugai, T. 73, 1090, 5222
 Sugano, Y. 5222
 Sugar, D. 2748
 Sugi, H. 11318
 Sugie, H. 234, 7455, 7680
 Sugimori, H. 6604, 6609
 Sugimoto, T. 4081, 4872
 Sugiura, M. 3104
 Sugumaran, M. 7354, 11305, 11313
 Suhaya, Y. 10828
 Suja, J. A. 7393
 Sujatha, I. 2049
 Sukari, A. M. 2215
 Sukari, M. A. 9041
 Sukhani, T. R. 7666, 11583, 11585, 11588
 Sukhanova, K. M. 3265
 Sukhija, B. S. 10780
 Sukhija, H. S. 9877, 10863, 11773
 Sukhoparova, V. P. 6485
 Sukhovol'skii, V. G. 11789
 Sukul, P. 671, 1649, 3696, 11712
 Sukumar, K. 8081, 9869
 Sula, J. 5177
 Sulistyowati, E. 8380, 8795, 8904
 Sulladmath, V. V. 3810
 Sullivan, M. J. 10802
 Sultanmuratova, V. R. 11310
 Suman, C. L. 732, 1619
 Sumenkova, V. V. 211, 214
 Sumida, M. 3595
 Summers, C. G. 8732, 11605, 11611
 Summers, D. 5998
 Summers, M. D. 4114, 4150, 6074, 7133, 8045, 8371, 9000, 10081, 11091
 Sun, C. N. 5186, 8226, 11169
 Sun, C. X. 4562, 8037, 10073
 Sun, F. R. 8035
 Sun, H. B. 9192
 Sun, J. 1480
 Sun, J. Z. 1740
 Sun, Q. 5740
 Sun, S. C. 2195
 Sun, W. C. 10276
 Sun, X. M. 11657
 Sun, X. P. 5183
 Sun, Y. 5383
 Sun, Y. J. 2321
 Sun, Y. R. 2457
 Sunagawa, K. 4081
 Sundaram, A. 3005, 4752, 8852, 8893, 9098, 10905-10907, 11152
 Sundaram, K. 8115
 Sundaram, K. M. S. 4752, 7919-7920, 8133, 8892-8893, 9090, 9098, 10905-10906, 12035
 Sundararaman, V. 7203, 10126
 Sunde, R. G. 4963
 Sunderland, K. D. 3516
 Sundström, L. 9389
 Sundukova, N. E. 534, 2749
 Sung, J. H. 10434
 Sungulia, M. A. 4783
 Sunio, L. M. 11576
 Suntio, L. R. 2053
 Suortti, T. 7129
 Supkoff, D. M. 1383
 Suplicy Filho, N. 4802
 Supranovich, R. V. 531
 Suprock, J. F. 6483
 Sureda, A. 4876
 Surendar Kumar 2047
 Surender, P. 2207
 Surendranath, P. 3176
 Suresh, G. 4813
 Suresh, S. 1475, 1477, 2645
 Sureshkumar, N. 2468
 Suri, S. M. 4766
 Suriaatmadja, R. E. 11741
 Suris, M. 8642, 8794, 9834, 10729
 Surlykke, A. 3318
 Surulivelu, T. 6972
 Suryanarayana, V. 10889
 Susheelamma, B. N. 9676
 Sushil Kumar 5920
 Susidko, P. I. 901
 Susidko, P. P. 1457
 Susman, I. 7274
 Süß, L. 2555, 3776, 5686, 7611
 Šustek, Z. 3461
 Sutapakdee, Y. 6019
 Suter, G. W., II 2039
 Suter, R. B. 9413
 Suthamasamy, S. 5648
 Sutherland, J. R. 10912, 10915
 Sutherland, J. W. 8954
 Suto, K. 3708-3709
 Sutter, G. R. 1451, 10588, 10595, 11546
 Suzan, M. 11995
 Suzuji, N. 5320
 Suzuki, A. 3331, 7372, 8149, 8262
 Suzuki, K. 9928
 Suzuki, M. 3347, 6350
 Suzuki, S. 6020
 Suzuki, T. 4574, 6299, 7396, 7427, 7724, 9779, 10270-10271, 10301
 Suzuki, Y. 5531, 7396
 Suzzoni, J. P. 201
 Svärd, L. 4368
 Švec, P. 3267, 5176
 Svendsen, A. 11963
 Svensson, I. 4410
 Svetlogorskaya, I. D. 3319
 Sviridova, T. P. 8413
 Svoboda, J. A. 56, 1138, 4336-4337
 Swaay, C. A. M. van 7424
 Swain, J. L. 9627
 Swain, K. M. 7949
 Swain, P. K. 3626
 Swales, L. S. 2239
 Swamiappan, M. 10615
 Swamy, G. S. 2034, 2668
 Swamy, T. K. 10901
 Swanson, J. A. 2120
 Sward, R. J. 5684, 10551
 Swarup, G. 1968
 Swedenborg, P. D. 5470, 5613, 7525, 8864
 Sweeney, J. D. 8884-8885, 10008
 Sweet, L. J. 11109
 Swevers, L. 1218, 5418
 Świech, J. 7191
 Swift, D. M. 7328
 Swimmer, C. 7395
 Swineford, D. M. 2057
 Swirski, E. 1855
 Switzer-Dunlap, M. 3600
 Switzerland, Schweizerische Gesellschaft für Phytomedizin 8189
 Switzerland, Station Fédérale de Recherches Agronomiques de Changins 5699
 Switzerland, Stations Fédérales de Wädenswil, Changins et Liebefeld 5723
 Sychev, B. I. 6527
 Sychev, M. M. 1327, 5443, 11414
 Syller, J. 10825
 Sylén, E. 3975
 Sylvester, E. S. 1396
 Symmons, P. M. 188
 Symondson, W. O. C. 598
 Syndor, T. D. 10951
 Syrek, D. 8879
 Syrett, P. 4576
 Syversen, O. 10750
 Syverud, T. D. 1528
 Szabó, A. 2031, 11201
 Szabó, G. 4422, 8567
 Szabó, L. 11831
 Szabó, P. 11782
 Szabolcs, J. 4600
 Szafrank, J. 4063
 Szaro, J. L. 6979
 Szarukán, I. 9793, 9864, 11751
 Szczepańska, K. 6911, 6939
 Szczesna, E. 5167
 Szendrey, L. 8568
 Szeőke, K. 7982, 8439
 Szeto, S. Y. 597, 6787
 Sziráki, G. 6314
 Szlendak, E. 2296, 11878
 Szmedra, P. I. 10800
 Szöcs, G. 1662, 6314, 8540, 8560, 10277
 Tabamaishvili, L. E. 3773
 Tabashnik, B. E. 2809, 5185, 5202, 5458, 6160-6161, 11819
 Tabata, H. 41
 Taberly, G. 1111
 Táborský, V. 6577, 7786
 Tacaná, J. C. 4434
 Tachikawa, H. 11213
 Tachikawa, T. 1419, 5951
 Tadauchi, O. 1032, 6880
 Tadmor, U. 7751
 Tados, T. F. 1989
 Tae, Y. C. 1938
 Taeger, A. 4261
 Taft, S. J. 1931
 Taft, W. H. 14
 Tagliente, F. 8981
 Taguchi, R. 292, 882
 Taha, A. H. 224
 Taha, H. A. 223, 654, 662, 2835
 Taha, M. A. 3149
 Taha, N. M. 4181
 Taher, S. H. 4068
 Taheri, M. S. 135, 4179
 Tahhan, O. 3870-3871
 Tahir, M. 6050
 Tahvanainen, J. 4046, 5038
 Tai, H. K. 5801
 Taib, A. B. 2660
 Taira, T. 7638
 Tait, S. M. 5558
 Taiti, S. 11390
 Taiwan, Taichung District Agricultural Improvement Station 7295
 Tajuddin, A. 2393
 Takabayashi, J. 6548, 8365, 10456
 Takács, A. 1537
 Takada, Y. 6500, 7125, 8018
 Takafuji, A. 3748
 Takagaki, T. 6482
 Takagi, M. 9703, 12005
 Takahashi, A. 11658
 Takahashi, K. 9632
 Takahashi, R. 539
 Takahashi, S. 6548, 8308, 8365, 9041, 10456
 Takahashi, T. 940
 Takahasi, S. 2215
 Takai, M. 9843, 10275, 10839
 Takai, Y. 4205
 Takaiishi, H. 7131
 Takakura, S. 3657
 Takamura, K. 6202
 Takanav, A. A. 11687
 Takanashi, M. 7754
 Takano, T. 3884, 5706
 Takao, S. 956
 Takeda, H. 10107
 Takeda, M. 2796, 5671, 7629
 Takeda, N. 2542
 Takematsu, A. P. 4776
 Takesue, Y. 292
 Takeuchi, T. 2227, 7242
 Takita, T. 1481, 1488
 Takiya, S. 7396
 Takizawa, H. 149
 Takla, N. S. 1407
 Tal, S. 3175
 Talanca, H. 9582
 Talekar, N. A. 2843
 Talekar, N. S. 2833, 2845, 5791, 5822, 6931
 Taley, C. G. 7615
 Taley, Y. M. 2759, 2773, 3808, 4781-4782, 4786, 4932-4933, 7877
 Taliaferro, C. M. 5678
 Talin, J. 7014
 Tallamy, D. W. 6408
 Taluker, D. 5892
 Tam, M. F. 8043
 Tamaki, Y. 234, 1079
 Tamalak, M. 5962
 Tamamaki, N. 8403-8404
 Tamarini, L. 8289
 Tamarina, N. A. 8310
 Tamás, V. 2368
 Tamashiro, M. 4553, 9458
 Tamayo Duque, I. 1580
 Tameirão Neto, E. 5021
 Tamim, M. 9723
 Tamimi, K. M. 1723
 Tamir, B. 486
 Tamura, H. 6296, 8028
 Tamura, I. 221
 Tamura, K. 4146
 Tamura, S. 5273, 7372
 Tamura, S. Y. 3104
 Tamura, T. 5273
 Tamura, Y. 770
 Tan, C. F. 7862
 Tan, K. H. 2215, 5339
 Tan, Q. 11689
 Tan, S. G. 5900
 Tan, X. L. 4555
 Tan, Y. 6728

Tan, Y. F. 3591
Tanabe, K. 4081
Tanabe, S. 6208, 9094
Tanada, Y. 7134
Tanahara, A. 2395
Tanaka, F. 8402
Tanaka, H. 3706, 5859, 11318
Tanaka, K. 5410, 7787, 10104, 10157
Tanaka, M. 11213
Tanaka, S. 3321, 9467-9468
Tanaka, T. 5302
Tanaka, Y. 1357, 4831, 9237
Tandon, P. 10533
Tandon, P. L. 5754, 10732
Taneja, A. D. 7859, 7875
Tanenbaum, S. W. 1122, 5178, 10953, 11131
Tang, B. S. 4921
Tang, D. S. 7069, 8797
Tang, H. L. 286
Tang, J. 1490
Tang, L. C. 5622, 6710
Tang, X. C. 2895
Tang, X. D. 5604
Tang, X. H. 3686
Tang, Z. H. 5179
Tang, Z. Y. 3978, 8306
Tangkanasing, P. 1252
Tanico-Hogan, L. D. 5298
Tanigoshi, L. K. 2680
Taniguchi, E. 928, 949, 3390, 10538
Taningher, M. 4192
Taniputra, B. 7712
Tanner, K. 7260
Tanno, K. 2811
Tano, Y. 5524
Tanokuchi, Y. 5952
Tanoue, Y. 9534
Tanskii, V. I. 920
Tanweer, N. 441
Tao, F. L. 4957
Tao, P. 5651
Tao, X. 2731, 4740
Tara, J. S. 5726
Tarasevich, L. M. 4148
Tarasova, O. V. 11789
Tardieux, I. 3398, 8385
Tarnawski, D. 4414
Tarpai, G. 1537
Tarragó, M. F. S. 4942
Tarrant, C. A. 4777
Tarva, Z. M. 3813
Tasayco, J. 6305
Tatar, M. 10333-10334
Tatara, A. 11665
Tatchell, G. M. 4371, 6280, 10959
Tateishi, K. 5303
Tatjanskaitė, L. 6427
Tatman, K. M. 10952, 11824
Tatsukawa, R. 6208, 9094
Tatsuki, S. 234, 9901
Tatsuno, M. 7217
Tat'yanskaitė, L. Ī. 6427, 7406
Tauber, C. A. 2471, 5450, 8736, 9417
Tauber, M. J. 2471, 5450, 8736, 9417
Tauber, P. J. 9417
Taufik, S. M. 8334
Tawfik, M. F. S. 227, 860-861
Tayaputch, N. 1480
Taylor, A. D. 2500
Taylor, C. W. 8244
Taylor, D. H. 811
Taylor, E. E. 6633
Taylor, F. 1149-1150, 2095
Taylor, K. L. 806
Taylor, L. R. 637, 753, 768, 4718, 5608, 5650, 8494, 10657
Taylor, M. F. J. 6651
Taylor, P. B. 7530
Taylor, P. S. 1463, 1479, 9312
Taylor, R. A. J. 11079
Taylor, R. W. 8260
Taylor, R. W. D. 6029
Taylor, S. E. 3391, 8273, 10592
Taylor, S. J. 3410, 5001, 7444
Taylor, T. W. 3296
Taylor, V. A. 4086
Taylor, W. K. 8379
Tayra, O. 9730
Tchernitchin, A. N. 4197
Tchurikov, N. A. 9277
Teague, T. G. 4826
Teakle, R. E. 6082
Teal, P. E. A. 913-914, 3292, 8254
Teare, I. D. 11729
Tebbetts, J. S. 10074
Technical Report - Biological Control Centre, ICAR 5245
Teddars, W. L. 6802
Teetes, G. L. 6744, 8523, 10632
Tefler, W. H. 2258
Teig, D. A. 1300
Teisson, C. 1597
Teixeira, E. P. 10913
Teixeira, N. T. 8480, 8502, 8718
Teixeira Alves, R. 4860
Tejada, A. W. 6727, 7207
Tejada, M. L. O. 2717
Tejeda, A. L. 404, 742
Telfer, W. H. 1113, 7331
Teller, J. K. 3280
Temeyer, K. B. 8013
Temirzhanova, Sh. A. 2857
Templado, J. 1033
Templeton, W. C., Jr. 3682
Teng, P. S. 10618, 10621
Tenhumberg, B. 9797
Teninges, D. 8974
Tenow, O. 10003
Tepedino, V. 5561
Tepedino, V. J. 9445
Teramoto, S. 6185, 9588
Terán, F. O. 10549
Térano, H. V. 9616
Terasaki, Y. 7931
Terayama, M. 2410
Tereznikova, E. M. 12028
Terho, E. 1784
Terlemezyan, G. L. 720
Termeh, F. 341
Terra, W. R. 6317, 7357
Terrettaz, R. 4714, 5704, 5707-5708
Terry, I. 2839, 11724
Terry, L. I. 2919, 6426
Terry, P. J. 11258
Tertyshnyi, A. S. 496, 527
Teruoka, A. 940
Teruya, T. 10777
Tessier, D. 11984
Testa, S., III 5378
Testani, M. L. 9307
Teulon, D. A. J. 4735
Tewari, P. K. 7324
Tezuka, N. 5565
Tezuka, T. 1481
Thakar, A. V. 2794, 3841
Thakor, K. J. 2837
Thakur, A. K. 4766
Thakur, J. N. 4180, 6810, 7399, 8387, 9682, 11433
Thakur, J. R. 4793, 7732
Thakur, M. L. 1417, 1781, 3019
Thakur, N. S. A. 2838
Thakur, P. D. 5803
Thakur, R. B. 6720
Thakur, R. C. 5834, 6902, 8699, 9810
Thakur, R. D. 9800
Thakur, R. K. 1779
Thakur, S. G. 9814
Thaler, K. 5465
Thangamuthu, G. S. 9577
Thangaraju, D. 4920
Thangavelu, K. 10492
Thanislaus, T. M. 6949
Thappa, R. K. 7243
Tharwat, M. E. 3621
Thayumanavan, B. 5667, 8506
Theiling, K. M. 6819
Theilmann, D. A. 4114
Theisen, M. O. 2283
Thellen, C. 2024
Theophilidis, G. 2163
Theroux, L. J. 1791, 6011
Theunissen, J. 3899, 7832
Thibaud, J. M. 1052
Thibault, B. 2092
Thibodeau, P. O. 6786
Thibout, E. 235, 721, 6941, 10748, 10840
Thiele, C. 2558
Thiele, E. 2060
Thiele, S. 10832
Thiem, S. M. 5120
Thieme, T. 343, 9919
Thien, L. B. 1228, 1754
Thiramurthi, S. 8753
Thireau, J. C. 9416
Thirugnanasuntharan, K. 3955, 7888, 10883
Thiry, E. 2268
Thistlewood, H. M. A. 5732, 8587, 8590, 8602
Tho, Y. P. 2523, 8230
Thomas, A. W. 7041
Thomas, B. J. 483
Thomas, B. R. 2194
Thomas, C. D. 7412, 7465
Thomas, D. 3335
Thomas, D. R. 4543
Thomas, E. A. C. 6534
Thomas, G. M. 8979
Thomas, J. A. 6395, 9379
Thomas, J. B. 7596
Thomas, J. R. 5026
Thomas, K. P. 8949
Thomas, M. B. 8444
Thomas, M. C. 3408, 4587, 6044
Thomas, P. T. 8174
Thomas, R. J. 4554, 5510-5511
Thomas, W. 8560
Thomas, W. E. 1099
Thomas-Compton, M. A. 6272
Thomas-Orillard, M. 4092, 6070
Thomazini, M. J. 745, 3656
Thome, J. P. 2432
Thomopoulos, G. N. 7315
Thompson, A. C. 4926
Thompson, C. R. 5556, 6520, 9492
Thompson, D. C. 4684
Thompson, E. 7385
Thompson, F. C. 9167
Thompson, J. N. 4345, 5568
Thompson, L. S. 6921
Thompson, M. J. 56, 4336-4337
Thompson, S. N. 57
Thomson, J. A. 10509
Thomson, J. D. 6450
Thomson, M. J. 844, 11865-11868
Thomson, M. S. 1312, 8337
Thomson, N. J. 7854
Thonoor, C. M. 10302
Thontadarya, T. S. 239, 6790
Thórarinnsson, K. 8640
Thorens, P. 5281
Thorne, B. L. 2525, 6602
Thornhill, R. A. 6316
Thornton, M. K. 1681
Thorpe, K. W. 9972
Thorvilson, H. 8566
Thorvilson, H. G. 3738, 8324
Thote, R. L. 7877
Thottappilly, G. 5810
Thouez, J. P. 7201
Threatful, D. L. 10361
Thresh, J. M. 1421, 5672
Throne, J. E. 3408, 6037, 10035, 11030, 11951
Thrupp, L. A. 2065
Thrush, S. F. 4213
Thülar, A. 5207
Thurston, G. S. 7916
Thyagaraja, B. S. 11339
Thybaud, E. 2023
Tian, J. X. 4858
Tian, X. D. 11657
Tian, Y. C. 10076
Tian, Y. Q. 8369
Tiao, L. 10052
Tiberi, R. 2980, 5932-5934, 5969-5970
Ticehurst, M. 8900
Tichá, E. 11136
Tichenor, B. A. 11220
Tichenor, B., Jr. 11815
Tiebel, K. C. 4334
Tieszen, K. L. 10053
Tiitanen, K. 5798, 6123
Tiivel', T. Kh. 2339
Tikhonova, O. A. 10676
Tikku, K. 7243
Tikoo, R. K. 8547
Tiku, R. K. 4737, 8601
Tillier, S. 10502
Tillman, P. G. 6546, 8425
Tillotson, D. K. 11912, 11948
Timár, T. 6212, 11130
Timmins, G. 2628
Timmons, G. M. 11000
Timofeeva, N. T. 9070
Timoshenko, S. A. 8990
Timoshenko, V. V. 382, 478
Timoshin, A. A. 5364
Timotei, P. S. 3771
Timper, P. 4127
Tinaut, A. 5426
Tingey, W. M. 688, 1690, 2884, 7565, 8736, 8745
Tingle, C. C. D. 4482
Tingle, F. C. 2473, 10872
Tinus, R. W. 1773
Tiongco, E. R. 8504
Tipping, P. W. 5095
Tiritilli, M. E. 5568
Tirtawidjaja, S. 700
Tischler, M. 7183
Tischler, M. E. 9254
Tisdale, R. A. 9956
Tisler, A. M. 10827
Tisseur, M. 10569
Tissières, A. 9275
Titi, A. El 4160
Tiwana, M. S. 1652
Tiwari, J. N. 9219
Tiwari, R. K. 9219, 10286
Tiwari, S. C. 11883
Tiwari, S. K. 7188
Tiwari, S. N. 3462, 4841-4842, 10811
Tjallingii, W. F. 4815, 4838, 11371
Tkach, M. T. 2929
Tkachev, V. M. 547, 8599
Tkachuk, V. K. 562
Tkacz, B. M. 5924
Tobi, D. R. 7023
Tobias, V. I. 7527
Tobin, T. R. 6433
Toccafondi, P. 5968, 10000
Tochihara, H. 9846
Toda, M. J. 150
Todd, A. D. 1441
Todd, J. L. 10589
Todd, J. W. 2299, 2303, 8715
Todd, P. L. 6316
Todorova, M. N. 5579
Toet, M. 7202
Toft, C. A. 10356-10357
Togashi, H. 3390
Togashi, I. 1860, 1863, 10009
Togashi, K. 7027, 9945
Tognina, G. 5799
Togebaye, B. S. 5104
Toimil, F. J. 818, 1877
Toit, A. P. du 2992
Toit, F. du 9541, 11536
Toit, W. J. du 4787
Tokano, T. 3705
Tokmakov, A. V. 1809
Tokunova, M. V. 502
Tokyo, O. P. 10049
Toledo, J. 11892
Toledo, Z. D. A. de 11246
Toler, R. W. 7604, 11593
Tolias, P. P. 7395
Tolle, D. A. 9085

- Tollefson, J. J. 2639, 9553, 11548
 Tollner, E. W. 7826, 10069
 Tolstikov, G. A. 6309, 11310-11311
 Toma, S. 8994
 Tomalak, M. 1852, 6085, 7055, 8844, 8848
 Tomalski, M. D. 4118
 Toman, G. A. 2894
 Tomar, R. S. 10024
 Tomar, S. S. 5193
 Tomar, V. 4198
 Tomassini, I. 3253
 Tomaszewska, B. 7517
 Tomczyk, A. 6856
 Tomino, S. 2290, 3356
 Tomioka, K. 37, 2245, 6443, 9255
 Tomiuk, J. 9918
 Tomizawa, C. 8076
 Tomkins, A. R. 8546
 Tommeras, B. Å. 2990
 Tømmerås, B. Å. 4329, 9982
 Tompkins, L. 1055, 11372
 Tong, L. 1352
 Tong, M. L. 3358
 Tonguebaye, B. S. 5926
 Tonini, C. 6798
 Tonka, C. H. 9275
 Tonkyn, D. W. 11513
 Tonner, M. 8179
 Tonon, M. C. 3330
 Tooby, T. E. 11182
 Toogood, P. L. 4220, 11981, 12012
 Toolson, E. C. 1128
 Tømmerås, B. A. 4035
 Toonders, T. J. 403
 Toor, R. F. van 471, 6756
 Topp, W. 1848
 Topping, C. J. 4694
 Topping, M. D. 8942
 Torchio, P. F. 9402
 Torell, L. A. 4684
 Torgovetskii, A. V. 171, 272
 Toriello, C. 6066
 Torikura, H. 3372, 3679-3681, 7610, 7821
 Tormos, J. 5363, 11469
 Torop, A. A. 1442
 Torossian, C. 5066, 7484
 Torre, C. S. L. de la 8292
 Torre, J. de la 1214
 Torre-Bueno, J. R. de la 3218
 Torre Callejas, S. L. de la 8292
 Torreno, H. S. 5894
 Torres, E. 4626
 Torres, F. 691
 Torres, M. R. 6674
 Torres-Cardona, S. 3723
 Torres de Miranda, L. 8953
 Torres-Rivera, C. N. 10067
 Torstensson, L. 2020, 2802
 Toru, D. 3271
 Toscano, N. C. 726, 4814, 4904, 6974
 Toschi, A. 6355
 Toshevski, I. 4252
 Tosi, P. F. 10081
 Tošić, M. 11084
 Toskina, I. N. 1911
 Tóth, A. 9057
 Tóth, M. 1662, 2227, 6314, 8274, 8540, 8560, 10277
 Toth, S., Jr. 9063
 Touchton, J. T. 10598
 Tourneur, J. C. 6714
 Toutain, F. 5914, 9460
 Tovar, J. C. 8554
 Townsel, J. G. 1099
 Townsend, L. H. 5625, 8475, 10870
 Tozatti, G. 8771, 9715, 9893
 Trabanino, C. R. 8516
 Trabelsi, M. 5311
 Tracy, J. L. 5449
 Träger, B. 8661
 Trager, J. 1223
 Trager, J. C. 10192
 Trali, A. R. 4737, 8547, 8601
 Trammel, K. 4752
 Tramper, J. 11090, 11107
 Tran, M. 10594
 Trancon, J. Perez 9033
 Traniello, J. F. A. 192, 2421, 2431, 7478, 11367
 Tranvik, L. 10018, 10155
 Trapateau, M. 2072, 10752
 Trapitz, P. 6382
 Trapman, M. 10709
 Tratnyek, P. G. 936
 Travis, J. 3550
 Treakle, K. 10096
 Tregear, R. T. 3300, 11318
 Trehen, P. 1187
 Treherne, J. E. 11320
 Trematerra, P. 3048, 3776, 7994, 9333, 10037
 Tremblay, C. 11529
 Tremblay, E. 2556, 9405, 9631, 11607
 Tremewan, W. G. 8301
 Trenholm, H. L. 3179
 Trentini, M. 1131, 7321
 Treverrow, N. 8658
 Trevisan, O. 1748-1749
 Trexler, J. C. 3550
 Tribe, G. D. 2992, 3021
 Tribel', S. A. 674, 2856, 3897
 Triberti, P. 3236
 Trichet, J. 7469
 Trichilo, P. J. 5823
 Triebkorn, R. 314, 5539, 7544
 Triggiani, O. 8021, 9746
 Trimble, R. M. 11446
 Trimmer, B. A. 6333
 Trimmell, D. 9031
 Tripathi, A. K. 2778, 6389, 7244
 Tripathi, C. P. M. 6864, 11442
 Tripathi, G. M. 1424-1425, 2594
 Tripathi, N. L. M. 2476, 3172
 Tripathi, R. A. 614
 Tripathi, R. N. 3573
 Tripathi, S. C. 10535
 Tripathi, S. P. 6389
 Tripathi, S. R. 2334, 7120, 10773, 11735
 Tripathy, N. K. 8078
 Triplehorn, B. W. 874
 Trivedi, T. P. 2866, 8743
 Trivedy, K. 5322
 Trochoulis, T. 2105
 Troetschler, R. G. 10306
 Troitskaya, E. N. 2538
 Troitskaya, L. A. 10572
 Trommer, R. 4420
 Tronsmo, A. 10661
 Tropical Pest Management 5241
 Troshkov, V. A. 6589
 Trosset, L. 5992
 Trotter, M. R. 1947
 Trottin-Caudal, Y. 2072, 10752
 Troubridge, J. T. 7400
 Trouth, C. O. 2252
 Trouvelot, E. L. 7948
 Trujillo, E. E. 9910
 Trujillo, J. 5160
 Truman, J. W. 114, 4335, 9254, 9256, 11319
 Trumble, J. T. 2820, 4712, 5911, 7003, 8665, 11081, 11936, 11977
 Trung, V. Q. 62, 11375
 Truong, H. X. 10842
 Trzebitzky, C. 2998
 Tsacas, L. 3438, 6475, 11617
 Tsagan-Mandzhiev, N. L. 10605
 Tsai, J. H. 3678, 10583-10584
 Tsai, L. W. 1120
 Tsai, M. C. 4313
 Tsai, R. S. 853
 Tsai, S. M. 6989
 Tsankov, A. 6129
 Tsao, R. 930, 10097
 Tsapkina, L. B. 384
 Tsauro, S. C. 4266
 Tscharnatke, T. 1384, 4682, 9520, 10540-10541
 Tsegaye, Y. 633
 Tseng, H. K. 8797
 Tserbo, V. I. 8730
 Tsezos, M. 979, 4209
 Tsibul'ska, A. I. 3115, 3117
 Tsimbulova, A. A. 4538
 Tsinitis, R. Ya. 3560
 Tsitsipis, J. A. 8481
 Tsuchihashi, H. 7217
 Tsuchiya, T. 6203
 Tsuchiyama-Omura, S. 7317
 Tsuda, K. 1955
 Tsuda, S. 8075, 10107
 Tsuga, K. 7446
 Tsuji, H. 7793
 Tsuji, K. 931, 933, 10107-10108
 Tsukahara, Y. 2251
 Tsukamoto, J. 5048
 Tsukamoto, K. 4079
 Tsumuki, H. 5295, 10510
 Tsunkova, N. A. 6226
 Tsushima, K. 6482
 Tsutsui, H. 1059, 1535, 3373, 3428, 3857-3858, 3895, 3905, 7403, 7454-7455, 7680, 7804
 Tsutsumi, T. 9704
 Tsutsumiuchi, K. 9253
 Tsvetkova, N. A. 644
 Tsybul'skaya, G. N. 5501
 Tsyglintseva, E. Y. 11310
 Tu, C. C. 8689
 Tu, C. M. 11922
 Tu, Y. Q. 5639
 Tu, Y. Z. 3584
 Tuan, S. J. 5131, 5622, 6710
 Tublitz, N. 8242
 Tucker, R. P. 3268
 Tudor, C. 6002
 Tufail, N. 1904
 Tuganova, I. A. 2521
 Tugwell, N. P. 11565
 Tuhan, N. C. 6970
 Tujii, Y. 1888
 Tuler, S. M. 11211
 Tuli, R. 10065
 Tulisalo, E. 5054
 Tully, O. 4204
 Tuma, D. 8945
 Tumlinson, J. H. 250, 548, 1297, 3292, 4218, 7352, 8234, 8254, 8488, 9170, 11122
 Turak, E. 10637
 Turchetti, M. 258
 Turchetti, T. 11632
 Turchin, P. 3614, 6628, 10960
 Turelli, M. 5722
 Turgeon, J. J. 6536, 8853
 Turillazzi, S. 2152
 Turin, H. 7070
 Turina, M. P. 4192
 Turka, I. 1696
 Turlings, T. C. J. 250, 8488
 Turmaine, I. 5145
 Turner, B. C. 1524
 Turner, C. E. 8417, 10469
 Turner, C. H. 3158
 Turner, C. R. 7445
 Turner, D. L. 1397
 Turner, E. C., Jr. 7467
 Turner, J. R. G. 6423
 Turner, W. J. 4585
 Turnipseed, S. G. 10802
 Turnock, W. J. 2304, 8749
 Turunen, S. 2278
 Tuşa, C. 7601
 Tusi, K. 2420
 Tuskes, P. M. 10983
 Tuszádi, C. K. 11383, 11781
 Tussac, H. 2586
 Tutumi, T. 10091
 Twaij, H. A. A. 6612
 Twine, P. 753
 Twort, A. R. 9045
 Tyagi, G. C. 11743
 Tyagi, M. P. 2627
 Tyagi, S. K. 6194
 Tyler, G. 10155
 Tyndale-Biscoe, M. 1510
 Tyrer, N. M. 10287-10288
 Tyri, R. T. 9384
 Tyrrell, D. 5134, 9636
 Tyurina, N. M. 271
 Tyus, H. M. 7500
 Tzanakakis, M. E. 3633, 11670
 Tzean, S. S. 4889
 Uchastnova, L. N. 4036, 7017
 Uchida, G. K. 2698
 Uchida, N. 4079
 Uchida, R. 7930
 Uchima, K. 7134
 Uchiyama, M. 3331
 Udagawa, T. 10109
 Udalova, G. P. 6517
 Udupudi, K. T. 11492
 Udayagiri, S. 10897
 Udayasoorian, C. 8753
 Udaybhanu, K. G. 9903
 Udeaan, A. S. 6872
 Udrea, I. 4573
 Uebel, E. C. 8238
 Ueckermann, E. A. 161, 1191, 9674, 10011, 11525
 Ueckert, D. N. 11255
 Ueji, M. 8076
 Uematsu, H. 1611
 Uemura, M. 9936
 Ueno, K. 7396
 Uetz, G. W. 2443
 Ugarković, D. 1139
 Ugoji, E. O. 10123
 Ugolini, A. 6149
 Uhmann, G. 9337
 Ujagir, R. 2850, 5832, 10761
 Ujhelyiová, L. 11136
 Ujije, T. 221, 1581, 1587
 UK, AFRC Institute for Grassland and Animal Production 9135
 UK, AFRC Institute of Arable Crops Research 6245
 UK, Agricultural and Food Research Council 11110
 UK, Agricultural Training Board 6246
 UK, Association of Applied Biologists 2112
 UK, British Crop Protection Council 2111-2112
 UK, British Mycological Society 4367, 4459, 4554, 4817, 5062-5065, 5102, 5123, 5164, 5240
 UK, CAB International Institute of Entomology 6454-6460
 UK, Forestry Commission 5034
 UK, Heather Society 11243
 UK, Institute for Grassland and Animal Production, Welsh Plant Breeding Station 8184
 UK, Marketing Strategies for Industry Ltd. 6230
 UK, Overseas Development Natural Resources Institute 10223
 UK, Royal Entomological Society of London 4367, 4459, 4554, 4817, 5062-5065, 5102, 5123, 5164, 5240
 UK, Society of Chemical Industry 2112
 Ukwungwu, M. N. 1476
 Ul-Haq, H. 441
 Ullastre, J. Y. 1822, 1827
 Ullatadevi, V. 5124
 Ullman, D. E. 3384
 Ulloa-Chacon, P. 9383, 9392
 Umap, K. B. 7806
 Umarov, A. A. 987
 Umarova, T. M. 1288

Umarova, T. Ya. 2513, 8338-8339
Umeh, E. D. N. 1653
Umeozor, O. C. 7612
Umphrey, G. 1223
Undeen, A. H. 1956, 1959, 5139, 7126
Underhill, E. W. 3024, 9758, 9775
Unelius, C. R. 63
Ungar, E. D. 7860
Unger, M. A. 8130
United Nations Development Programme 2123
Unruh, T. R. 4506
Unterman, B. M. 1056, 6293
Upadhyay, K. D. 3503-3504, 12021
Upadhyay, P. D. 10535
Upadhyay, V. R. 348, 1571, 8637, 8721
Upatham, E. S. 3602
Uppal, D. K. 8620
Urano, K. 983
Urban, M. 2803
Urias López, M. A. 217
Urinova, Kh. Z. 987
Urmantseva, V. V. 992
Urrelo, R. 5088, 6030-6031, 10040
Urs, K. C. D. 1685
USA, American Camellia Society 2114
USA, American Orchid Society 7253
USA, American Phytopathological Society 9127
USA, Empire State Honey Producers Association 11271
USA, Florida Department of Agriculture and Consumer Services 4166
USA, Hawaiian Sugar Planters' Association 8182
USA, Ohio Agricultural Research and Development Center 2113
Usher, B. F. 5225
Usher, M. B. 1349, 5354, 6470
Usherwood, P. N. R. 5317, 8245
Ustinenko, A. N. 11967
Uthamasamy, S. 1484, 1729, 8780
Utsumi, T. 2202
Uzodinma, J. E. 11186
Väänänen, V. M. 1835
Vaandrager, S. H. 1062
Vaart, H. R. van der 2333
Vacante, V. 1710, 7748, 11517
Vacek, D. C. 128, 6779
Vacke, J. 10566
Vaculová, K. 11039
Vader, J. 5223
Vaeck, M. 899
Vagis, A. G. 10575
Vaid, R. M. 7243
Vail, K. M. 4830
Vail, P. A. 9635
Vail, P. V. 5081, 9643, 9881, 10074, 11500, 11920
Väisänen, R. 4026, 5056, 5923, 5977, 7905, 7945, 9958, 10246
Vaissayre, M. 8774
Vakher, P. 12011
Vala, J. C. 278, 9401, 10254
Valand, V. M. 10782
Valdés, E. 4978
Valdez-Carrasco, J. 9398
Valdini, C. 4816
Valenti, A. M. 6189
Valentin, G. 6228
Valentin, H. O. san 9927
Valentine, E. W. 6463-6464
Valentine, P. S. 10948
Valentino, A. 7968
Valentinuzzi de Santos, S. 9307
Valenzuela, J. E. 767
Valenzuela-Gonzalez, J. 9352
Valério, J. R. 4692, 6754, 9617-9618
Valério, M. A. 6960
Valéro, J. R. 3106
Valicente, F. H. 6709, 8476, 9547
Valle, E. dalla 8807
Valle, R. R. 3692
Vallejo, C. G. 2199
Vallotton, R. 5702
Valor, J. 2822
Valterová, I. 1347, 3578
Valverde, R. A. 10576
Valverde Garcia, A. 986
Van Achterberg, C. 2147, 4536, 10232
Van Alebeek, F. A. N. 7286
Van Alphen, J. J. M. 6936-6937, 7512
Van Antwerpen, R. 3275
Van Assche, C. 8117
Van Beek, N. A. M. 5109, 5133
Van Beek, T. A. 7794, 8916
Van Bergeijk, K. E. 6549
Van Bladel, P. 981
Van Bokhoven, H. 7794
Van Bruggen, A. C. 5538
Van Coillie, R. 2024
Van de Baan, H. E. 1565, 2745, 8623-8624
Van de Steene, F. 603, 9770
Van de Veire, M. 2791
Van den Assem, J. 2503, 3561, 4487
Van den Berg, A. 162
Van den Berg, A. M. 162
Van den Berg, H. 1323, 1833, 10453
Van den Berg, M. A. 2769, 9711
Van den Bosch, J. 6773
Van den Broek, A. T. M. 42, 1276, 2407
Van den Driessche, P. 7163
Van den End, E. J. 11090, 11107
Van der Blom, J. 10348
Van der Goot, V. S. 6256
Van der Graaff, N. A. 4956, 5142
Van der Haagen, M. M. 6303
Van der Horst, D. J. 1276, 2407, 3275
Van der Kraan, C. 8307
Van der Linde, T. C. de 6599
Van der Linden, A. 4536
Van der Meijden, E. 10512
Van der Meulen, T. 7886, 10714
Van der Pers, J. N. C. 89
Van der Vaart, H. R. 2333
Van der Weel, J. J. 4230
Van der Westhuizen, M. C. 5631, 5796, 6599, 6706, 8469
Van der Wilk, F. 4124
Van der Zijpp, S. 1518
Van Dijken, M. J. 6936-6937
Van Doesburg, P. H. 3245
Van Doorn, J. M. 1276, 2407
Van Dorsselaer, A. 4333, 10303
Van Driel, J. W. 1830
Van Driesche, R. G. 613, 8264, 11698
Van Duyn, J. W. 2839, 7612, 11724
Van Duyn, P. 3862
Van Eeuwijk, F. A. 3518, 9231
Van Eimeren, B. 2409
Van Elferen, J. H. W. M. 4975
Van Emden, F. I. 5954
Van Emden, H. F. 3870-3871, 5812, 6227, 7679, 8678
Van Esch, J. 5806
Van Eyndhoven, G. L. 11517
Van Frankenhuyzen, K. 3037, 5050, 8869, 9964
Van Gemert, W. M. J. B. 4324
Van Genuchten, M. T. 10102
Van Halsema, L. 9077-9078
Van Harten, A. 907, 3133
Van Houten, Y. M. 1317
Van Houtven, A. 899
Van Huis, A. 4230
Van Iersel, J. J. A. 2503
Van Kerkhove, E. 9377
Van Kleef, R. G. D. M. 3187
Van Lent, J. W. M. 4124
Van Lenteren, J. C. 4838, 5369, 9859
Van Lier, F. L. J. 11090, 11107
Van Loon, J. J. A. 9231
Van Marrewijk, W. J. A. 42, 1062, 1276, 2407
Van Mellaert, H. 4120, 5114, 6131, 9023
Van Middlesworth, F. L. 5294
Van Nieukerken, E. J. 840
Van Noort, S. 11656
Van Nouhuys, S. 504
Van Reenen-Hoekstra, E. S. 11903
Van Rensbrug, J. B. J. 2630
Van Rensburg, G. D. J. 9573
Van Rensburg, J. B. J. 417, 4635
Van Rie, J. 899, 4120, 5114, 9023
Van Rompuy, L. 7122
Van Rossem, G. 6581
Van Scoyoc, G. E. 8138
Van Soelen, J. 5572
Van Stalle, J. 4266, 11681
Van Stralen, M. R. 3518
Van Stratum, P. 6936
Van Swaay, C. A. M. 7424
Van Toor, R. F. 471, 6756
Van Vianen, A. 9859
Van Vugt, Y. 8680
Van Vuuren, R. 3517
Van Wyk, P. S. 5023
Van Wyk, P. W. J. 5023
Van Zoelen, A. M. 10512
Vanags, R. I. 3092
Vanangamudi, K. 1523
Vandenberg, J. D. 11076-11078, 11112
Vander Meer, R. K. 197, 1227, 2415-2416, 4449, 9394
Vanderbruggen, H. 899, 4120
Vandergeten, J. P. 11740
Vanderlaan, M. 6484
Vandermeer, J. H. 12030
Vaněk, T. 992
Vaňhara, J. 12014
Vanhoff, C. L. 10730
Vänninen, I. 6099
Vanparys, L. 9770
Vanschaik, J. 3375
Van't Hof, H. M. 2284-2285
Vaňurová, E. 11650
Vara, P. C. 7453
Varadarasan, S. 11522
Varama, M. 5056
Varanka, I. 9240
Varas Lira, P. 4716
Varatharajan, R. 9903
Vardanyan, L. O. 2787
Varela, A. M. 2877, 4893
Varela, J. 4904
Varga, E. 6212
Vargas, D. 9047
Vargas, P. 1903
Vargas, R. 6109
Vargas, R. I. 2383, 4380, 6848, 11615
Vargas, R. R. 4748
Vargas C., J. 1269, 7499
Vargas H., O. 2878
Vargas-Osuna, E. 887
Vargo, E. 9391
Vargo, E. L. 203-204, 6519, 9386, 9390, 11428
Varis, A. L. 5793
Varkonda, Š 11136
Varma, A. 8392, 8452, 8520
Varma, G. C. 1743, 6686
Varma, M. 9676
Varma, N. 9075
Varma, R. V. 1838, 8890, 10982
Varn, M. 5733
Varnagy, L. E. 11128
Varona, I. 10729
Varshney, R. K. 10316, 10716
Varshney, R. P. 8143
Varshney, S. 8143
Varty, I. W. 8892
Vary, P. S. 3092
Vasanthi, M. 10268
Vásárhelyi, T. 8441
Vasconcelos, H. L. de 4658, 11834
Vasconcelos Oliveira, C. A. de 4901
Vasey, C. E. 25
Vasil'ev, A. R. 537
Vasilev, L. 8790
Vasil'ev, N. F. 2402
Vasil'ev, V. A. 527
Vasil'ev, V. P. 919
Vasil'eva, E. A. 782, 8806
Vasil'eva, Z. N. 8682
Vasil'eva T. I. 2015
Vas'kov, E. L. 4730
Vasques, A. M. 1046
Vasquez, H. O. 1636
Vass, W. P. 8128
Vassetzky, S. G. 11251
Vassilieff, I. 3191
Vastrad, A. S. 10895
Vasundhara, M. 3961
Vaudry, H. 3330
Vaughn, J. L. 10373
Vautier, P. 4722
Vazquea, J. 9275
Vázquez, J. J. 9190
Vázquez, L. L. 9897, 10878-10879
Vecchi, M. A. 10478
Vecchio, M. C. del 11721
Vecchio, R. J. del 6945
Vecchio, V. 9729
Vecht-Lifshitz, S. E. 7128
Veda, O. P. 6875
Veeranna, G. 6532, 6558, 6562, 6596
Veeresh, G. K. 886, 5754
Veerman, A. 4515
Vega, C. García de la 1214
Veierov, D. 10849
Veiga, A. 11396
Veiga, C. M. 8316
Veire, M. van de 2791
Velasco-Soriano, M. 7080
Velayudhan, R. 1289, 6544
Velcheva, K. 1974
Veldmann, G. 8821
Velibekova, E. I. 10582
Velichkov, M. 6129
Velten, R. K. 5460
Velthuis, H. H. W. 3033
Velu Murugan 6174
Velusamy, R. 5667, 8506, 11577
Venable, D. L. 10426
Venable, L. 11824
Vendramim, J. D. 4674, 8449
Venezian, A. 7744
Venezuela, FONAIAP 4070
Venkata Rao, A. 4088
Venkataraman, B. V. 2043
Venkatesh, K. 53, 2172
Venkatesh, M. V. 3572
Venkatesulu, K. 3947, 9899
Venkateswarlu, K. 3203, 6726, 11214, 12003
Venkateswarlu, P. 10798
Venkatramesh, M. 4211
Vennila, S. 438, 6739
Vennison, S. J. 5493, 8348
Ventura, D. F. 10300
Ventura, W. 10624
Venugopal, M. S. 8796, 10610

- Venugopalan, V. K. 6208
 Venugopalrao, N. 9870
 Vepsäläinen, K. 7481, 7483, 11856
 Vera, H. 1200
 Vera Catala, E. R. 1746
 Vera Graziano, J. 133, 402, 631-632, 1458, 9826
 Vercambre, B. 3645
 Verdier, A. le 1540
 Verdugo, C. L. 2448
 Vereijken, P. 1976, 12036
 Vereshchagina, A. B. 214
 Vergara, C. 7496
 Verghese, A. 10732, 11675, 11677, 11680
 Verghese, J. 2043
 Verhaeghe, J. C. 9621
 Verity, D. S. 1155
 Verma, A. K. 4824, 8683, 10772, 11654
 Verma, A. N. 3664, 3918, 5677, 5764, 6698, 6746, 7663-7664, 8725, 9604, 9756
 Verma, B. P. 7826
 Verma, B. R. 858, 870, 3980, 11896, 11898
 Verma, G. C. 9528
 Verma, G. D. 11700
 Verma, G. S. 10162
 Verma, J. P. 5099
 Verma, K. D. 1387, 1686, 1692, 3908
 Verma, O. P. 6698
 Verma, R. S. 7110
 Verma, R. V. 1798
 Verma, S. 1494, 1648, 4864, 5807, 8669, 11586, 11697
 Verma, S. K. 2476, 3172, 5811, 6553, 11227
 Verma, S. N. 2832, 8699
 Verma, T. S. 733
 Vermaerke, D. 7007
 Vernon, P. 1187
 Vernon, R. S. 597, 2881, 10776
 Veronesi, B. 8174
 Verschaeve, L. 10098
 Verstraeten, C. 11033
 Verstraeten, R. 603
 Ves Losada, J. C. 4911
 Veselovskii, V. V. 11310-11311
 Vet, L. E. M. 250, 8488
 Vetró, G. 4208
 Vetter, R. S. 6976, 11407
 Veverka, K. 9066
 Vey, A. 10060
 Via, S. 2677, 7391
 Viajante, V. D. 5657, 10616
 Vianen, A. van 9859
 Vicario, A. 2549, 3599, 7549
 Vicchi, V. 11621
 Vicente, M. 10784
 Vick, K. W. 4057-4058, 10031
 Vickers, N. J. 7734
 Vickers, R. A. 8560
 Vickery, V. R. 9345
 Vidal, B. 3950
 Vidal, E. H. F. 1178
 Vidal, S. 3989
 Videla, L. A. 9077-9078
 Vidlička, L. 8828
 Vidyasagar, P. 8518
 Vidyasagar, P. S. P. V. 10532
 Vieau, F. 11483
 Viedma, M. G. de 7906
 Vieira, P. C. 11425
 Vieira de Souza, V. B. 5313-5316
 Viejo, J. L. 1033, 7906
 Vienne, C. 10404
 Viera, C. 4357
 Viereck, A. 151, 3133
 Vig, K. 11293
 Viggiani, G. 2750-2751, 2760, 3129, 9016, 9147, 9152, 9404, 9517, 11661, 11799
 Vignali, R. 9201
 Vignes, W. G. des 433
 Viidalepp, Ya. 2378
 Viitasaari, M. 6264-6265
 Vij, S. 3819
 Vijayaraghavan, K. 2287, 6606
 Vijayaraghavan, M. R. 6994
 Vijayaraghavan, R. 964
 Vijverberg, H. P. M. 3187
 Vik, T. A. 11109
 Vila, Y. 6228
 Vilardebó, A. 1208
 Vilardi, J. C. 11614
 Vilas Boas, A. M. 6684
 Vilau, F. 4614
 Viljoen, J. H. 8930
 Vilkamaa, P. 3240
 Vilkova, N. A. 2926, 7551, 10556
 Villacarlos, L. T. 820
 Villacorta, A. 9896
 Villafranca Sanchez, M. 986
 Villain, L. 764
 Villalon, B. 9743
 Villani, M. G. 7448, 8269
 Villas Boas, G. L. 3830
 Villaseñor Alba, J. 133
 Villavaso, E. J. 4924, 5879, 5881, 6375
 Villemin, G. 9460
 Villeneuve, F. 7730
 Villet, M. 5427-5428
 Villeveille, M. 10752
 Villiers, E. A. de 3815
 Villiers, M. de 2164
 Villiers, W. M. de 9372
 Vilmos, V. T. 7831
 Vinayak, P. R. 5275
 Vincelli, P. C. 5836, 9823
 Vincent, C. 8605, 8612
 Vincent, S., III 7378
 Vinson, S. B. 4308
 Vinogradova, T. P. 216
 Vinokurova, T. P. 3124
 Vinopal, J. H. 6483
 Vinson, S. B. 65, 1295-1296, 2412, 3487, 3539, 4915, 5283, 5309, 6977, 9301, 9430, 9455, 9876, 11420
 Violante, F. S. 6190
 Vir, B. K. 4930
 Viraktamath, C. A. 4853, 10208-10209, 10901
 Virgona, C. T. F. 8073
 Virmani, O. P. 6222
 Visalakshi, A. 497, 8142, 10741-10742
 Visalakshi, R. 11178
 Visänen, R. 10975
 Viseras, E. 182, 3349
 Vishnupriya, R. 2144
 Visser, B. 1980
 Visser, J. H. 3314
 Visser, M. E. 7512
 Viswanadham, S. K. 164
 Viswanath, S. 11203
 Viswanathan, S. 8656
 Vita, C. 8994
 Vita in Campagna 10115
 Vitarana, S. I. 3954
 Vité, J. P. 1796, 8907, 11854
 Viter, V. F. 9070
 Vitner, C. 2373
 Vitner, J. 2373
 Vitou, J. 4695
 Vivar, J. L. 9216
 Vives Moreno, A. 1197, 2103
 Vladeeva, N. V. 2028
 Vladimirovskii, A. A. 3555
 Vlák, J. M. 888, 4124, 11090, 11107
 Vlasenko, N. G. 4148
 Vlasova, E. A. 10823
 Vlcová, V. 11651
 Vliet, G. van der 9532
 Vo Van Mieng 10630
 Voblyi, P. I. 172, 11409
 Voegelé, J. 418
 Voegelé, J. M. 3760
 Voegtlin, D. 1763
 Voerman, S. 7736
 Vogel, W. R. 4523, 5060
 Vogt, E. A. 5449
 Voicu, M. C. 9540
 Voinovich, N. D. 4539
 Voisin, J. F. 1186, 2586, 4389
 Voitenko, L. G. 172
 Voldeng, H. D. 4642
 Volgin, V. I. 12017
 Völkl, W. 1392, 3611, 4592
 Volkman, L. E. 4101, 5113
 Volkmar, C. 388
 Volkov, Yu. P. 1992
 Volkova, L. I. 7834
 Volkova, M. A. 723
 Vollrath, F. 260
 Volney, W. J. A. 6007, 7029
 Volodichev, M. A. 379
 Volodina, E. V. 10676
 Volovik, A. S. 5850, 12025
 Vol'vach, V. V. 3146
 Von Arx, R. 8936, 11744
 Von Dohlen, C. D. 7938
 Von Frisch, K. 6220
 Von Kaster, L. 3375
 Von Lindeman, G. 1713
 Von Proff, L. 5304
 Von Wechmar, M. B. 4139, 11918
 Vongsamanode, S. 1252
 Vorlet, M. 7260
 Voronina, E. G. 3125
 Vorontsov, A. I. 4991-4992
 Vörös, G. 11715
 Voroshilov, N. V. 1279
 Vörösová, T. 5125
 Vorwerk, M. P. 8576
 Vos, R. de 2322
 Voss, G. 9042
 Voss, R. H. 6926-6927
 Vostřel, J. 1409
 Vostrowsky, O. 72, 1080, 1234, 1413, 6302, 9208
 Vovk, T. I. 485
 Vowles, P. 2573
 Vrba, Z. 4453
 Vree, M. L. 8408-8409
 Vree, T. B. 8408-8409
 Vries, F. W. T. Penning de 444, 446, 5665
 Vrkoč, J. 1347, 3578, 7798, 8824
 Vrkoch, Ya. 6307
 Vroege, P. W. 7042
 Vuattoux, R. 4388, 4388
 Vugt, Y. van 8680
 Vuković, M. 11388
 Vullings, H. G. B. 1103, 4324
 Vungsilabutr, W. 10612
 Vuorisalo, T. 8856
 Vuorteva, P. 1835
 Vuuren, R. van 3517
 Vyas, H. N. 8721
 Vyas, R. V. 10059
 Vybornykh, S. N. 8019
 Vylegzhanina, G. F. 7241
 Vyshinskii, I. M. 1361, 5529
 Waage, J. K. 1323, 5469, 8677, 10468
 Waberley, S. B. 2112
 Wachendorff, U. 1410
 Wada, H. 4205-4206, 12005
 Waddell, T. 10539
 Waddill, V. H. 6649, 9739
 Waddle, B. A. 7856
 Wade, M. J. 3034
 Wade, V. 7250
 Wadhams, L. J. 3137, 11307
 Wadhwa, R. 3287, 3824
 Wadsworth, S. C. 7378
 Wagenet, R. J. 8146, 10102
 Wags, S. B. 9072
 Wagner, D. L. 7023, 10381
 Wagner, M. R. 1773, 5991, 8827, 8837, 9956, 11821, 11823
 Wagner, R. 9260
 Wagner, T. L. 8898, 11844
 Wago, H. 5302
 Wahi, S. D. 732
 Wahid, P. 10530
 Wahid, P. A. 10173
 Wahl, D. B. 4577, 10388
 Waibel, H. 8060
 Wainhouse, D. 4984
 Waiss, A. C. 410
 Waiss, A. C., Jr. 9040
 Waite, G. K. 7743, 8630
 Waithaka, J. M. 8397
 Wajnberg, E. 4489, 7397
 Wakabayashi, K. 11318
 Wakabayashi, T. 3347, 6350
 Wakamura, S. 9194, 9843, 10275, 10804, 10839
 Wakimoto, T. 9094
 Wakou, M. 3802
 Wakszynski, F. S. 7183
 Waladde, S. M. 10164
 Wałecz, L. 5167
 Waldbauer, G. P. 4366, 6315, 7464, 10283
 Waldorph, J. 1453
 Waldrop, B. 6330
 Walgenbach, D. D. 4377, 9627
 Walgenbach, J. 8604
 Walgenbach, J. F. 10702
 Wallia, S. 5193
 Waligóra, D. 8747
 Walker, A. K. 1335, 3758, 6553, 8420
 Walker, C. H. 6153
 Walker, G. 6207
 Walker, G. P. 1532, 3252, 11667
 Walker, J. 6817
 Walker, P. M. B. 5230
 Walker, P. W. 5871
 Walker, R. J. 2243
 Walker, T. J. 3456, 5402, 6580, 9189
 Wall, M. 8778
 Walla, M. D. 978, 8128
 Wallace, B. 4363
 Wallace, D. D. 9504
 Wallace, H. N. 4995
 Wallace, K. 1993
 Wallace, L. 10129
 Wallace, R. G. 3695, 9597
 Wallich, D. 7860
 Waller, D. 6518
 Waller, D. A. 10974
 Waller, J. M. 4956
 Wallin, H. 366, 4623
 Wallner, W. E. 7023, 9977
 Walls, M. 8856
 Wallsgrove, R. M. 3137
 Waloff, N. 9438
 Walsh, D. 504
 Walsh, E. A. 1887
 Walsh, J. A. 1613
 Walter, C. 775
 Walter, C. M. 857
 Walter, D. E. 2465, 8533, 10639
 Walter, G. H. 209, 9310
 Walters, D. A. 8799
 Walters, D. S. 5906, 7899
 Walters, F. S. 6489
 Walters, K. F. A. 5594
 Walters, M. C. 2630
 Walters, P. J. 3736
 Walters, S. M. 11142
 Walther, C. 3310
 Walton, D. W. 12031-12032
 Walton, G. S. 11443
 Walton, M. P. 10561, 11440
 Walton, P. 5149
 Waltz, R. D. 9158
 Wan, F. H. 4578, 4583
 Wan, M. T. 6787
 Wan, X. 10892
 Wan Portiah Hamzah 6174
 Wanderley, L. J. G. 8750
 Wandzik, E. 7953
 Wang, A. F. 9514
 Wang, C. M. 1552, 9662
 Wang, C. X. 2457
 Wang, D. M. 8510
 Wang, D. W. 4778, 7749
 Wang, F. C. 3126
 Wang, F. M. 9601
 Wang, G. 7153
 Wang, G. J. 4485
 Wang, G. X. 7511
 Wang, H. 11556

Wang, H. H. 117
Wang, H. P. 6883
Wang, H. Q. 4660
Wang, H. S. 11404
Wang, H. Y. 167, 4002
Wang, J. 2648, 4662
Wang, J. F. 2890, 3535
Wang, J. M. 11689
Wang, J. X. 5158
Wang, J. Z. 8369
Wang, M. Z. 3668, 3781
Wang, P. Y. 5990
Wang, Q. 5390
Wang, Q. S. 167
Wang, R. 3532, 4578, 4582-4583
Wang, R. J. 8369
Wang, S. H. 9514
Wang, S. M. 10488
Wang, S. S. 11374
Wang, S. Y. 2321
Wang, S. Z. 6961
Wang, T. 4504, 9408
Wang, W. L. 5183, 9198
Wang, W. X. 3967
Wang, X. 98, 5117
Wang, X. F. 5148
Wang, X. L. 7019
Wang, X. R. 2907
Wang, X. Y. 10321
Wang, X. Z. 6078
Wang, Y. 4869, 5365, 10076, 11002
Wang, Y. C. 1466, 4291, 6213
Wang, Y. G. 5729
Wang, Y. J. 9397
Wang, Y. M. 7622, 8509
Wang, Y. S. 4740, 6110
Wang, Y. W. 7862
Wang, Y. X. 3782, 8503, 9475
Wang, Y. Z. 6027
Wang, Z. F. 8440
Wang, Z. H. 6825
Wang, Z. N. 5118, 10052
Wang, Z. S. 7367
Wang, Z. T. 2564
Wang, Z. X. 10052
Wang, Z. Y. 2457
Wangboonkong, S. 2922
Wanjura, W. J. 11005
Wanner, O. 9095, 11223
Wannigama, G. P. 1412, 9499
Ward, A. 2589
Ward, C. W. 11084
Ward, E. S. 8012
Ward, O. P. 3093
Ward, R. D. 2775
Wardlaw, J. C. 9379
Wardle, A. R. 6550, 7531
Wardlow, L. R. 5236-5237
Ware, A. B. 11656
Ware, G. W. 11248, 11259, 12020
Wareing, D. R. 705
Wariishi, M. 3183
Waring, G. 4013
Waring, G. L. 8437-8438
Warn, R. M. 7329
Warneke, A. 6445
Warner, F. W. 11750
Warner, J. S. 10368
Wärngård, L. 976
Warren, A. D. 10438
Warren, G. 3138
Warren, J. T. 5335, 9247, 11327
Warren, M. 9988
Warren, M. S. 6398
Warren, P. H. 236
Warren, S. D. 3492
Warrington, S. 3665, 8894
Warthen, J. D., Jr. 190, 564, 3211, 5227, 7245
Warui, C. M. 9902
Warumby, J. F. 8531, 9616
Wasan, D. 1998
Wasnik, H. M. 11570
Wassenegger-Wittlich, G. 1640
Wasserman, H. H. 9204
Wassgren, A. B. 2229
Watabe, H. A. 125
Watabe, N. 5295
Watanabe, H. 1363, 1366, 3782, 9082
Watanabe, I. 10624
Watanabe, K. 3711, 7636-7637
Watanabe, M. 6358
Watanabe, N. 7118, 8256
Watanabe, T. 9585
Watanabe, Y. 221, 6020
Waterhouse, D. B. 7698
Waterman, P. G. 6225
Waters, D. J. 11683
Waters, R. M. 7245
Waters, W. E. 10919
Watkins, B. 6484
Watkins, R. 2110
Watkinson, W. P. 4189
Watson, A. 2132
Watson, A. H. D. 6283
Watson, C. N. 1183
Watson, D. B. 4320
Watson, D. G. 3312
Watson, G. W. 7273, 7887
Watson, J. A. L. 4547, 11349
Watson, M. C. 1524
Watson, R. D. 3325
Watson, T. F. 2916, 8779
Watson, W. M. 1730
Watt, A. D. 3011, 5602, 7051, 7903
Watterson, A. 2098
Wattez, C. 10499
Watts, J. G. 11255
Wauthy, G. 11011
Wawrzyniak, M. 8684
Way, M. J. 3757, 4575
Way, M. O. 3695, 9597
Wayadande, A. C. 4697
Weakley, C. V. 8633, 8635, 8762
Weale, M. E. 10325
Weatherby, J. 11869-11870
Weatherby, J. C. 4995, 7450
Weatherston, I. 995
Weaver, B. A. 4058
Weaver, C. A. A. 7914
Weaver, D. K. 7379
Weaver, M. 2755
Weaving, A. J. S. 10466
Webb, B. A. 114, 8371
Webb, B. D. 7987
Webb, D. R. 8698
Webb, G. A. 3066
Webb, G. C. 7390
Webb, J. C. 3818, 4057-4058, 4080, 4080, 4364, 7504, 10031
Webb, N. R. 8267, 10081
Webb, R. E. 1834, 4009, 10952, 11824
Webb, S. E. 1957, 6870
Webber, J. F. 5064, 5240
Weber, G. 1469
Webster, C. C. 2086
Webster, J. A. 1977, 10557, 10633
Webster, J. M. 1923, 1935, 8024
Webster, T. C. 2533
Wechmar, M. B. von 1449, 4139, 11918
Wedberg, J. L. 1528, 9549, 9628
Wedgwood, M. A. 950
Wedin, G. P. 11989
Wedlock, D. J. 2000
Weeks, J. C. 4292, 6333, 11322
Weeks, J. R. 10809
Weel, J. J. van der 4230
Wegener, A. 3580
Wegensteiner, R. 5979
Wegler, R. 10180, 10182-10183
Wegnez, M. 8258
Wehner, F. 5876
Wehner, R. 6432
Wehrli, E. 10988
Wei, B. C. 8369
Wei, H. F. 7703
Wei, H. J. 9516
Wei, H. Y. 9951
Wei, Q. 5183
Wei, Q. Y. 342
Wei, S. X. 8369
Wei, Y. 3620
Wei, Y. C. 4819
Wei, Y. T. 8503
Weibel, D. E. 1505
Weibull, J. 1446, 5680
Weichsel, F. 621
Weidemann, S. 127
Weiden, M. 2814
Weidner, E. 8977
Weigl, W. 6147
Weigt, L. A. 5955, 5957
Weillepp, M. 11089
Weinberger, R. 6488
Weiner, B. 4135
Weinstein, A. 1805
Weinstein, S. A. 3091
Weinzierl, R. A. 8952
Weires, R. 8604, 10689
Weires, R. W. 2737, 2739, 4754, 5730
Weis, A. E. 6646, 7568
Weis-Fogh, T. 8227
Weiser, J. 6065
Weisleder, D. 8233
Weiss, B. 8174
Weisskopf, C. P. 10148
Weissling, T. J. 11545
Weitzman, M. D. 8033
Weitzman, P. D. J. 5323
Welch, H. E. 1852, 5962, 6085, 7055, 8844, 8848
Welch, J. 4224
Welch, N. C. 503-504
Welch, S. M. 1454
Welling, B. 9607
Welling, M. 2599, 6585
Wellinga, S. 10719
Wellings, P. W. 9316
Wells, M. A. 2279, 2288, 3339, 10321
Wells, P. H. 6220
Wellso, S. G. 10331, 11535
Welsford, I. G. 10498, 10503
Weltens, R. 9377
Welter, S. C. 4904, 6225, 8571, 11626
Welty, C. 2739, 4754, 5730
Wen, B. R. 4060
Wen, B. Y. 5445
Wen, C. S. 4562, 10073
Wen, H. C. 1815, 2772, 2776
Wen, J. Z. 8037
Wen, Q. 749
Wen, Y. Z. 1873, 2973
Wen, Z. M. 3581
Weng, W. S. 1290
Wengel, A. 8090
Wenn, C. S. 4108
Wennauer, R. 91, 96
Wenner, A. M. 6220
Wenzel, J. W. 2487
Wermelinger, B. 9203
Werner, F. G. 1524, 11816
Werner, R. A. 3027
Werstiuk, N. H. 2628, 8373
Weseloh, R. M. 5043, 7062, 7961, 8897, 9955, 11008, 11444
Weslien, J. 791, 4249, 11852
Wesołowska, W. 11386
Wessel, M. 10903
West, A. 5710
West, C. A. 5044
West, K. J. 9634
West, R. J. 3005, 7915, 8852, 10007
Westcott, N. 1993
Westcott, R. L. 1155
Westerman, P. R. 1941
Westfall, R. D. 10941
Westhuizen, M. C. van der 5631, 5796, 6599, 6706, 8469
Westigard, P. H. 1565, 2745-2746, 2748, 6819, 8623
Weston, P. A. 6882, 7836, 8760
Westwood, M. N. 7254
Wetterer, J. K. 8921
Wetzel, T. 385-388, 390, 397, 4631, 9364, 10567-10568
Wetzstein, M. E. 10800
Weyer, U. 11104
Weyrauther, E. 90, 9232
Whalley, P. 6396
Whalon, J. 8604
Wharton, R. A. 1430, 2141, 5278, 5584, 10509
Wheater, C. P. 275, 1303, 2499, 9396
Wheatley, A. R. D. 6908
Wheatley, S. J. 6908
Wheeler, A. G., Jr. 335, 1758, 2561, 2939, 2955, 3605, 4091, 4589, 6467, 11794, 11808
Wheeler, C. H. 9270
Wheeler, D. R. 7991
Wheeler, G. C. 4448, 10192, 10399
Wheeler, G. S. 1096, 4634, 8422
Wheeler, J. 4448, 10399
Wheeler, J. W. 2206, 7341, 8871
Whelan, C. J. 4020
Whelan, E. D. P. 4620, 7596
Whelan, T. M. 33
Wheye, D. 2320
Whiles, M. R. 7449
Whim, M. D. 3477
Whitaker, J. O., Jr. 7426
Whitcomb, W. H. 4862
White, A. F. 1235
White, B. W. 1739
White, D. H. 8110
White, D. S. 4476
White, E. G. 7460
White, G. B. 1453
White, I. M. 6639, 6643, 7262
White, J. B. 11220
White, J. H. 2003
White, L. D. 555, 4163, 9684
White, L. M. 10139
White, N. D. G. 5080, 6036, 7975, 8927, 11876
White, P. F. 7283
White, P. R. 67, 129, 857, 1162, 11527
White, R. H. 5328
White, V. 4715
White, W. 4506
White, W. B. 1792
Whitebread, S. E. 323
Whitehead, A. T. 2212
Whitehead, D. R. 6467
Whitehead, P. E. 9086
Whitehead, P. F. 827, 9342
Whiteley, D. 10325-10326
Whitfield, J. B. 4280
Whitford, F. 3391, 8273, 11544
Whitford, W. G. 2430, 9322-9323, 10523
Whitham, T. G. 828, 3615, 4983, 7902
Whiting, P. 3327, 3344, 10307
Whittington, P. M. 3473
Whitlock, V. H. 11927
Whitman, D. W. 718
Whitney, N. J. 7075
Whitt, M. A. 1949
Whittaker, J. B. 5809, 6225, 8894
Whitton, P. S. 3311
Wibmer, G. J. 9, 6638, 7552, 7559, 9497
Wicker, C. 3334
Wicklow, D. T. 354, 4182
Wickman, B. E. 5925
Wickman, P. O. 6650
Wicks, R. 10597
Wicks, T. J. 4738
Widstrom, N. W. 410
Wieber, A. 1834, 4009
Wiebes, J. T. 10718

- Wiech, K. 4703-4704, 8545
 Wieman, K. F. 4302
 Wiemer, D. F. 2429
 Wiemery, S. N. 3441
 Wiemeyer, S. N. 3181
 Wiendl, F. M. 4692
 Wiernasz, D. C. 4369
 Wiersma, N. 3017
 Wiese, A. F. 10093
 Wiese, K. 11260
 Wiesenborn, W. D. 4712, 9872
 Wiesner, C. J. 3038
 Wiesner, R. J. 1069
 Wigger, A. 9043
 Wightman, J. A. 666, 730, 6908, 7094-7095, 9813
 Wiinamäki, K. 4063
 Wijesinghe, D. P. 2524
 Wijnands, F. G. 9532
 Wikholm, G. 967
 Wiklund, C. 2307, 4368, 7564
 Wikteliuss, S. 130
 Wilcken, C. F. 7580
 Wilcock, R. J. 6206
 Wilcox, A. 3624
 Wilcox, D. R. 3092
 Wilcox, M. M. 11210
 Wilcox, W. W. 4077
 Wild, J. R. 6058
 Wildbolz, T. 3798, 5737, 7727, 8581, 8616
 Wilde, G. 5676
 Wilde, G. E. 5675
 Wilding, N. 5240
 Wildman, T. E. 1608
 Wilhoit, L. 6444
 Wilk, F. van der 4124
 Wilkening, A. 3185
 Wilkin, P. J. 11304
 Wilkins, J. P. G. 857, 9060, 11156
 Wilkins, R. M. 431, 951, 2551, 7624, 10188
 Wilkinson, C. 6462
 Wilkinson, I. J. 6154
 Wilkinson, R. C. 7238, 9978, 10044
 Willems, A. G. M. 8144
 Willey, M. B. 8363
 Williams, A. G. 4983
 Williams, B. R. 3940
 Williams, C. B. 10928
 Williams, C. E. 4008, 9500, 9914, 10985, 11796
 Williams, C. M. 10309
 Williams, C. T. 7540
 Williams, D. F. 4449, 6516
 Williams, D. J. 7085, 7273, 11864
 Williams, D. J. M. 2456
 Williams, E. H. 1757
 Williams, G. V. 11103
 Williams, H. J. 4308, 5283, 6977, 9455, 9876
 Williams, I. H. 10766
 Williams, J. H. 6908
 Williams, J. L. D. 5327, 10291, 10294
 Williams, K. S. 5357
 Williams, L. A. 11440
 Williams, P. 6760
 Williams, R. N. 5725, 8564, 11291, 11630
 Williams, S. L. 1887
 Williams, W. M. 7257
 Williams, W. P. 1448, 2624, 4651, 7606, 10599
 Williams, Z. 1854
 Williamson, C. 4139, 11918
 Williamson, D. L. 10269
 Williamson, F. A. 8151
 Willis, J. H. 1091
 Willmer, P. G. 2985
 Willot, E. 10321
 Wills, L. 10248
 Wills, P. A. 7114
 Willson, H. R. 8489
 Willson, L. J. 6448
 Willson, M. F. 7909, 8877
 Wilson, A. G. L. 754, 3942
 Wilson, B. H. 7582
 Wilson, B. W. 10148
 Wilson, C. G. 1376, 9491
 Wilson, D. 7100
 Wilson, D. D. 707, 4888
 Wilson, D. L. 7595
 Wilson, D. S. 3986
 Wilson, E. O. 10193
 Wilson, F. D. 1738, 6979, 7867
 Wilson, H. P. 1639
 Wilson, K. 1112
 Wilson, L. T. 713, 2922, 3507, 5712, 6642, 8762, 9841, 9851, 9874, 10186
 Wilson, M. 7688
 Wilson, M. C. 2032, 8556
 Wilson, M. E. 6075
 Wilson, M. R. 2135, 3910, 7310
 Wilson, N. M. 6375
 Wilson, S. W. 2955, 11285
 Wilson, T. 5957
 Wilson, T. G. 7231
 Wilson, W. T. 1269, 1272, 1274, 7499
 Wiltshire, C. W. 371, 9538
 Wiltshire, E. P. 144
 Wimalasiri, W. R. 9498
 Wimmer, Z. 992
 Winder, G. 2859
 Winder, G. H. 8728
 Winder, J. A. 5562
 Winder, L. 8470
 Wing, K. D. 6210, 9034, 11236-11237
 Wingfield, M. J. 5023
 Winistörfer, M. 1119
 Wink, M. 1169
 Winkler, D. A. 8073
 Winkler, R. 2062
 Winks, C. W. 9726
 Winner, C. 1676
 Winokur, L. 11362
 Winslow, M. D. 1476
 Winston, D. A. 7941
 Winston, M. L. 2534
 Winter, A. J. de 5537
 Winter, C. K. 8924
 Winter, K. 10942
 Winterlin, W. 6207
 Wipfli, M. S. 1528, 9628
 Wipperfurth, T. 1147-1148
 Wiryadiputra, S. 8380
 Wisdom, C. S. 9049, 10515
 Wise, D. 5346
 Wise, D. H. 3575
 Wiseman, B. R. 410, 1496, 2624, 5228, 6747, 8491-8492, 9554, 9565, 9629
 Wiseman, J. S. 510
 Wislocki, P. G. 570, 6859, 11196-11197
 Wiśniewski, J. 5024
 Wiśniewski, J. R. 10312
 Wiśniewski, J. R. 9261
 Wissel, C. 10514
 Wittalinski, W. 6068
 Witcosky, J. J. 10923
 Witethom, B. 2122
 Witherell, P. C. 10474
 Witkowski, J. F. 2631, 10591
 Witkowski, W. 2803, 2874
 Witkowski, Z. 8880
 Witte, B. R. 2315
 Witte, L. 5286
 Wittwer, A. 4379
 Witz, B. 246
 Witz, B. W. 226
 Witz, J. A. 2354, 9355
 Witzgall, P. 64, 3794, 7727, 8237, 8581
 Wlaschek, M. 6381-6382
 Wnuk, A. 4703, 8545
 Wofford, P. L. 10721
 Wohlgemuth, R. 4055, 4073, 5086
 Wohlleb, J. C. 960, 2019
 Wöhrmann, K. 1129, 9918
 Woiwood, I. P. 753
 Wojcik, D. P. 2416, 4447
 Wojcik, W. F. 5107, 5132
 Wojtusiak, J. 7089
 Wolbert, P. 116
 Wolcsánszky, E. S. 8441
 Wolda, H. 1164, 10448
 Wolf, D. 9428
 Wolf, F. T. 7130
 Wolf, H. 3434, 3476, 6297
 Wolf, I. 5842
 Wolf, R. 9428
 Wolf, W. A. 3289
 Wolf, W. W. 6493
 Wolfe, G. W. 6667
 Wolfe, K. L. 10690
 Wolfe, M. S. 5546
 Wolfenbarger, D. A. 2923, 9028, 10046, 11047
 Wolfersberger, M. G. 1070
 Wolfgang, W. J. 2209
 Wolfson, J. L. 8224, 10843
 Won, R. 46
 Wone, S. N. 1908
 Wong, M. P. 11229
 Wong, T. T. Y. 494, 582, 4488, 6535, 6848, 7897, 10436, 11359
 Wongkaew, S. 8453
 Wongo, L. E. 8943, 10039
 Wongsiri, S. 1252
 Wonneberger, C. 8674
 Woo, K. S. 2347, 5046, 8882
 Wood, A. L. 8174, 9101
 Wood, A. M. 11245
 Wood, B. J. 1747
 Wood, B. W. 6802
 Wood, D. L. 131, 6045, 8870, 10945
 Wood, H. A. 5109, 5133
 Wood, J. O. 9998
 Wood, J. T. 1345
 Wood, M. 6630
 Wood, P. S. 5943
 Wood, S. L. 804, 3229-3230
 Wood, T. G. 831, 2591, 4554, 5507-5508, 5510-5511, 11477
 Wood, W. F. 8074
 Woodcock, C. M. 305, 996, 3090
 Woodford, J. A. T. 3762
 Woodhead, S. 448
 Woodring, J. P. 2266, 7339, 11300, 11302
 Woodrow, J. 6207
 Woodrow, J. E. 5635
 Woodrow, K. P. 9238
 Woodruff, R. I. 2258
 Woods, B. 11778
 Woods, C. W. 92, 97, 7368, 11337, 11341
 Woods, S. A. 3006, 7959
 Woods, W. 1403
 Woodside, M. 8104
 Woodson, W. D. 2861
 Woodward, W. T. W. 7689-7690
 Wool, D. 2148, 5921, 6668
 Woolfenden, W. R. 4308
 Woolhouse, M. E. J. 4750, 4753
 Woolley, J. B. 4506
 Workman, P. J. 5913
 World Health Organization 10176
 World Meteorological Organization 5244
 Worner, S. P. 6770, 9103
 Worrall, D. W. 2609
 Worrall, W. D. 4617, 5603
 Worrill, N. 6487
 Worthen, W. B. 5778, 10757, 11690
 Wortmann, M. 4304
 Woudstra, J. H. 4415
 Woyciechowski, M. 9379
 Wraight, S. P. 3878, 5137
 Wrase, D. W. 158, 7439
 Wratten, S. D. 5602, 8711
 Wray, G. A. 11352
 Wren, B. 6223
 Wrenn, N. R. 11597-11598
 Wrensch, D. L. 8374
 Wright, A. D. 6640
 Wright, A. J. 8537
 Wright, A. W. 8000
 Wright, D. J. 2010, 2798, 8089, 9764
 Wright, D. L. 11729
 Wright, G. McN. 510
 Wright, J. 1140
 Wright, J. E. 9358
 Wright, L. C. 4630
 Wright, M. S. 8243
 Wright, P. J. 9624-9625, 9924
 Wright, R. J. 7448, 8269
 Wright, S. L. 7964
 Wright, S. S. 6313
 Wright, V. E. 10041
 Wright, V. F. 5088, 6030-6031, 10040, 11874
 Wrubel, R. P. 5225, 10335-10336
 Wu, C. F. 4313
 Wu, C. H. 2223
 Wu, C. Y. 87
 Wu, D. X. 8414
 Wu, G. 5028
 Wu, G. L. 1660
 Wu, H. G. 2388
 Wu, J. 4118, 6091
 Wu, J. C. 6391
 Wu, J. T. 9601
 Wu, J. W. 1334, 11083
 Wu, J. X. 393, 4097
 Wu, K. J. 2900, 5554
 Wu, L. 4555, 7153, 11556
 Wu, L. Y. 5487
 Wu, M. 9254
 Wu, M. N. 824
 Wu, M. Y. 4560
 Wu, N. 4178
 Wu, P. C. 3592
 Wu, P. H. 824
 Wu, Q. Z. 7703
 Wu, R. Y. 10740
 Wu, S. Y. 2008, 8077
 Wu, W. J. 9951
 Wu, W. L. 9186
 Wu, W. N. 1885
 Wu, W. S. 7703
 Wu, X. B. 2732
 Wu, Y. 3598
 Wu, Z. D. 4556
 Wu, Z. F. 2648, 10629
 Wu, Z. K. 3086
 Wuorenrinne, H. 5054, 7484, 11856
 Wurm, R. 8609
 Wust, K. 8155
 Wyatt, G. R. 2288, 4071
 Wyatt, N. P. 5954
 Wyatt, S. D. 10789
 Wyk, P. S. van 5023
 Wyk, P. W. J. van 5023
 Wynne, H. J. A. 3275
 Wyrostkiewicz, G. 6922
 Wysocki, W. 2688
 Wysoki, M. 4102, 4774-4775, 10070, 10719
 Wyttenbach, C. R. 969
 Wyvrat, M. J. 7183
 Xi, H. 5165
 Xi, Y. J. 7012
 Xia, B. Y. 9477
 Xia, G. L. 3978
 Xia, J. W. 3992
 Xia, J. Y. 444, 446
 Xia, S. P. 1659
 Xian, Z. Y. 5411
 Xiang, Y. F. 10562
 Xiao, G. R. 7314
 Xiao, G. Z. 1167
 Xiao, H. L. 1870
 Xiao, J. K. 9932
 Xiao, Y. F. 7622
 Xie, F. Y. 9737
 Xie, M. X. 1466
 Xie, T. J. 4097, 8995
 Xie, W. 6078
 Xie, W. D. 1939, 6061
 Xie, X. 8064
 Xie, Y. Q. 4496, 7872
 Xie, Z. N. 4496

Xin, H. P. 1660
Xin, J. H. 8991
Xin, J. L. 1342
Xing, Z. P. 4110
Xingquan, K. 1454
Xiong, H. Z. 2458
Xiong, J. J. 5905, 6825
Xiong, Y. 298
Xiong, Z. Y. 2895
Xodo, E. 4816
Xu, A. Y. 9476
Xu, C. H. 1334
Xu, D. J. 4958
Xu, F. Y. 8414
Xu, G. J. 1577
Xu, G. M. 10620
Xu, J. R. 7703
Xu, L. X. 5782
Xu, R. 6861
Xu, R. M. 5369
Xu, S. F. 3686, 3781
Xu, W. 3598
Xu, X. 9414, 9423, 9425
Xu, Y. X. 2462
Xu, Z. G. 4740
Xu, Z. J. 8510
Xu, Z. L. 7012
Xuan, T. H. 10842
Xue, J. J. 10614
Xue-Yuan, Z. 7745
Xuehai, Z. 8834
Xueyan, Y. 8834
Y, D. F. 1334
Ya-Klai, V. 450
Yablonka, G. 488
Yacout, G. A. 1913, 11050
Yadav, A. K. 1717
Yadav, C. L. 11736
Yadav, C. P. S. 3841, 5577, 10527
Yadav, D. N. 218-219, 8765, 10059
Yadav, G. S. 3919, 4671
Yadav, H. S. 2892
Yadav, J. P. 6385
Yadav, J. S. 1085
Yadav, K. P. 10626
Yadav, L. P. 10172
Yadav, L. S. 2807
Yadav, P. R. 1126, 2807, 3840, 3919, 11692
Yadav, R. P. 5589, 5592
Yadav, S. R. 1423
Yadav, S. S. 11692
Yadav, T. D. 846, 947-948, 4069, 6169, 7997-7998, 10034
Yadav, V. K. 6503
Yadava, C. P. 670, 3887, 5816, 10807
Yadava, C. P. S. 347, 476-477, 2794-2795, 7571, 10528-10529, 11524
Yadava, T. P. 11733
Yadava, V. K. 8320
Yadwad, V. B. 11492
Yager, D. D. 85, 10290
Yagi, S. 2272, 5303, 5742
Yaginuma, T. 2264
Yago, M. 2198
Yakaitis, B. Yu. 7065
Yakhishev, E. B. 274
Yakimavichyus, A. B. 3560
Yakimchuk, N. V. 3367
Yakobson, B. A. 1256
Yakovchuk, T. N. 6119
Yamada, H. 9466
Yamada, K. 10091
Yamagami, A. 9934
Yamagishi, M. 9243
Yamaguchi, T. 82, 3260, 6348
Yamaguchi, Y. 137, 7600
Yamamitsu, T. 7169
Yamamoto, A. 2715, 10691
Yamamoto, D. 5320
Yamamoto, H. 8011
Yamamoto, I. 9237, 10116, 10180, 10182, 11889
Yamamoto, R. 4553
Yamamoto, R. T. 9458
Yamamoto, Y. 2191
Yamane, S. 11263
Yamano, Y. 2022
Yamaoka, R. 41
Yamasaki, H. 3394
Yamasaki, N. 1093
Yamasaki, R. B. 3169, 5220
Yamashita, I. 9843
Yamashita, N. 7456-7457
Yamashita, O. 113, 2264, 3282, 4558, 9241
Yamatsu, K. 9587
Yamchuk, A. V. 649
Yampol'skaya, I. B. 6195
Yan, C. Q. 9509
Yan, D. P. 11507
Yan, F. M. 5389
Yan, F. S. 8916
Yan, G. Y. 5729
Yan, H. M. 4660
Yan, J. J. 1334
Yan, J. P. 4107
Yan, N. 11954
Yan, Y. H. 8593
Yan, Y. J. 10629
Yanagi, K. 2008
Yancey, M. F. 10368
Yáñez-Sedeño, P. 4177
Yang, B. Y. 2907
Yang, C. 4662
Yang, C. L. 10562
Yang, C. T. 6253-6254
Yang, D. R. 3336
Yang, G. Z. 8991
Yang, H. W. 5158, 8983
Yang, J. C. 7542
Yang, J. K. 9941
Yang, K. D. 2301
Yang, L. 5365, 6597
Yang, L. E. 5761
Yang, Q. H. 7872
Yang, R. S. H. 4193, 8106
Yang, T. C. 7784
Yang, W. H. 2457
Yang, X. J. 7510
Yang, X. M. 11688
Yang, X. Z. 3485
Yang, Y. Z. 1604
Yang, Z. F. 3930
Yang, Z. Q. 4957
Yaninek, J. S. 1833, 2876, 7276, 9839-9840
Yanis, A. G. 7620
Yanishevskaya, L. V. 5501
Yano, E. 3526-3527, 4902
Yano, K. 435, 452, 5645, 12005
Yano, T. 6482
Yao, D. S. 8345, 10441
Yao, G. D. 3725
Yao, K. 5445
Yao, L. X. 9737
Yao, M. C. 11169
Yao, N. 8654
Yao, Q. Z. 5411
Yao, Z. C. 9424
Yara, K. 5517
Yarkulov, V. F. 589
Yarom, I. 2763
Yaron, B. 10141
Yashika, K. 8217
Yasnosh, V. A. 567
Yastrebtsov, A. V. 1263, 5482
Yasuda, H. 9470
Yasuda, K. 9837
Yasuhara, M. 2394
Yasunaga, T. 1810
Yasuno, M. 972-973
Yasuyama, K. 82, 3260
Yates, H. O., III 5985, 7009
Yates, J. R. 9458
Yates, L. R. 798
Yathom, S. 2691, 3175, 4931, 4975
Yatsenko, V. G. 507
Yazdani, S. S. 709, 4852, 9887, 11700
Yazlovetskiy, I. G. 211, 214, 2520, 3553
Ye, C. Q. 8369
Ye, Q. M. 8989
Yeargan, K. V. 2449, 2452, 5469, 5819, 6572, 8710, 9803, 10439, 11610
Yearian, W. C. 891, 3726, 4503, 5005, 6749, 7132, 9802
Yein, B. R. 7648-7649
Yela, J. L. 1177, 1194, 4989
Yélamos, T. 7307, 7429
Yelshetty, S. D. 11584
Yen, F. C. 2635
Yen, Y. P. 1082, 10834
Yendol, W. 8900
Yendol, W. G. 2311, 7024
Yeo, S. M. 9244
Yeoman, D. P. 1441
Yeow, W. K. 6166
Yépez Gil, G. 9789
Yépez Gil, G. A. 9788
Yeshbir Singh 659
Yi, B. R. 4809
Yi, P. 9932
Yiem, M. S. 8618, 10739
Yilmaz, M. A. 5797
Yin, B. T. 3274
Yin, C. 11556
Yin, C. M. 3535
Yin, X. C. 189
Yin, Y. S. 4819
Ying, S. H. 3497
Ying, X. D. 3690
Yip, H. Y. 6067
Yizhar, Y. 4770, 7737
Yla-Mononen, L. 5054
Ylinen, L. 7129
Ylla Ullastre, J. 1822, 1827
Yoder, K. 7053
Yoh, J. 6859
Yokoi, N. 7729
Yokomi, R. K. 1948, 5747
Yokomizo, K. 9586
Yokomizo, N. K. S. 10913
Yokoo, M. 1488, 7619
Yokota, K. 292
Yokoyama, K. 3711, 7636-7637
Yokoyama, V. Y. 8962, 8965, 11638
Yoldas, Z. 2758
Yonce, C. E. 8634
Yonekura, M. 2194
Yoneyama, K. 4079
Yong, M. 5532
Yoo, C. M. 9197
Yoo, K. H. 6081
Yoo, S. W. 295
Yoon, K. W. 1053
Yorke, S. C. 59
Yoshi, T. 7437
Yoshida, K. 11994-11995
Yoshida, M. 1761
Yoshida, N. 1811-1812, 1860
Yoshida, S. 7427
Yoshida, T. 3394, 3737, 8076, 11270
Yoshida-Shaul, E. 7323, 11284
Yoshii, T. 7423
Yoshimi, T. 6366
Yoshimoto, T. 10109
Yoshimura, T. 41, 73
Yoshioka, K. 4079
Yoshioka, T. 8408-8409
Yosida, N. 7931
Yost, J. T. 5912
Yost, R. S. 8137
You, H. M. 8435
You, Z. P. 4291, 6213
Young, A. G. 304, 951, 2551
Young, A. M. 2964, 3946, 5899
Young, D. 7362, 9234
Young, H. 8963
Young, H. G. C. 4803
Young, J. A. 6157-6158
Young, J. E. 51
Young, J. H. 6448
Young, K. S. 6081
Young, L. J. 11606, 11608
Young, M. R. 9735
Young, O. P. 1388, 1734-1735, 8376-8377, 8544
Young, R. M. 2949, 7440
Young, S. Y. 891, 5005, 7132, 9802, 9805
Young, T. L. 7235
Youngman, R. R. 2768, 4724, 4814, 6800, 7720
Youns, L. 3792
Younis, H. T. 1205
Younis, S. A. 1707
Yousaf, M. 10864
Youssef, J. 9126
Youssef, K. H. 1683, 2864
Youssef, R. A. 1407
Yousten, A. A. 4103
Yousuf, M. 5769
Ytsma, G. 808
Yu, C. H. 7325
Yu, C. M. 8993
Yu, D. 11002
Yu, G. X. 3673
Yu, H. M. 4309
Yu, J. 5028
Yu, J. H. 9368
Yu, S. J. 54
Yu, S. Y. 7703
Yu, X. 8978
Yu, Z. Y. 6215
Yudina, T. G. 8019
Yue, B. S. 7749
Yugoslavia, Institut za Hmeljarstvo in Pivovarstvo 7573
Yugovic, J. V. 6491
Yuh, J. H. 451
Yukawa, J. 2697, 2753
Yukawa, J. I. 10020
Yukinari, M. 8804
Yule, W. N. 3764
Yun, C. Y. 2189
Yun, M. S. 10739
Yurkova, R. G. 4210
Yushkov, D. D. 1209
Yusupova, F. D. 6195
Zaballos, J. M. P. 11468, 11472
Zaballos, J. P. 1185
Zabeau, M. 7122
Zabka, M. 11289
Zabkiewicz, J. A. 2001
Zabudskaya, I. A. 3494, 5775
Zacharda, M. 3787
Zachariassen, K. E. 2330
Zachary, D. 3334, 10303
Zack, R. S. 6224, 6276
Zagami, S. 11802
Zagrodzinska, B. J. 4019
Zagulyaev, A. K. 1006, 11253
Zaheruddeen, S. M. 9589
Zahner, P. 3789
Zahner, V. 897
Zahradníček, M. 3639
Zahradník, J. 4272
Zaichenko, A. I. 2027
Zaidi, Z. 5520
Zainullin, R. A. 11310
Zaitsev, P. I. 6865
Zaitsev, Yu. M. 5076, 11506
Zaitseva, G. A. 1890
Zajac, M. A. 8556
Zak, J. C. 1869
Zakhals, C. J. 1294
Zakharyan, V. A. 2539, 2541
Zakhar'yashcheva, M. P. 943
Zakhida, N. D. El'daur 9542
Zakhvatkin, Yu. A. 2175
Zakladnoi, G. A. 7090
Zakordonets, V. A. 793
Zalom, F. G. 726, 8633, 8635, 8762, 9851
Zalucki, M. P. 753, 2573, 5350, 5871, 9494-9495
Zalunin, I. A. 1920
Zaman, M. 1744, 2928, 4897, 9845, 11652
Zambon, G. Q. 859
Zamboni, A. C. 2282-2283
Zamir, D. 1711
Zamotaev, A. I. 5850, 12025
Zampetti, M. F. 7441
Zandalinas, M. J. M. 7678

- Zandigiacomo, P. 4816, 7803, 11540, 11542
 Zangerl, A. R. 10813
 Zanúncio, J. C. 7922
 Zapata C. S. 2403
 Zapol'skikh, O. V. 3265
 Zárate de Lara, G. 631
 Zareh, N. 5750, 11667
 Zarnack, W. 4304
 Zashchita Rastenii 71, 395-396, 398, 401, 419, 427, 550, 626, 678, 842, 909, 916, 918, 942, 2600, 2862, 2902, 3132
 Zaslavskii, V. A. 2518, 8338
 Zatsépa, I. N. 381
 Zatwarnicki, T. 7305
 Zavaleta, L. R. 4699
 Zavelishko, I. A. 7241
 Zavorszky, P. 100
 Zawirska, I. 8293
 Zaz, G. M. 8996
 Žďárek, J. 8824
 Zebitz, C. P. W. 2479-2480, 9797
 Zechini D'Aulerio, A. 8807
 Zechun, W. 5487
 Zedan, M. A. 2472, 3912
 Zedan, M. A. A. 1311
 Zederbauer, R. 6147
 Zee, F. T. 3078
 Zehavi, A. 1737
 Zehnder, G. W. 4885, 4887, 8746, 10827
 Zehner, J. M. 11030
 Zeid, M. 10855
 Zeid, M. I. 10857, 11222
 Zetruk, V. N. 5850, 12025
 Zelazny, B. 893
 Zelenková, I. 4514
 Zelený, J. 2097
 Zeng, X. S. 3451
 Zeppa, G. 3672
 Zera, A. J. 4334, 9189
 Zerón, E. 6066
 Zerova, M. D. 10197
 Zettler, F. W. 5815
 Zettler, J. L. 11895
 Zewar, M. M. 3082
 Zhai, B. P. 2321, 10620
 Zhai, B. T. 3453
 Zhai, X. 1706
 Zhalnina, L. S. 728
 Zhan, H. Z. 4819
 Zhang, A. W. 3086
 Zhang, B. 4418
 Zhang, B. X. 10076
 Zhang, C. 4113
 Zhang, C. H. 7402
 Zhang, C. J. 1659
 Zhang, C. Z. 3163, 6167, 9421
 Zhang, F. W. 11657
 Zhang, F. Y. 5740
 Zhang, G. 4014
 Zhang, G. F. 10614
 Zhang, G. X. 1181
 Zhang, G. Y. 2907, 8983
 Zhang, H. L. 5845
 Zhang, H. W. 9514
 Zhang, J. 4662
 Zhang, J. F. 1352, 1740
 Zhang, J. G. 11559
 Zhang, J. L. 7508, 11559
 Zhang, J. M. 2603
 Zhang, L. J. 6830
 Zhang, L. R. 8798
 Zhang, M. L. 9414, 9423
 Zhang, M. Y. 3085
 Zhang, N. X. 4497, 7735, 8600
 Zhang, Q. B. 7749
 Zhang, Q. W. 7872
 Zhang, Q. Y. 10072
 Zhang, S. 4282, 5383
 Zhang, S. G. 8983
 Zhang, S. J. 3673
 Zhang, S. M. 5208
 Zhang, S. Y. 3126
 Zhang, W. J. 6961
 Zhang, X. D. 1660
 Zhang, X. K. 1420
 Zhang, X. M. 3690
 Zhang, X. X. 6391, 10620
 Zhang, Y. 535, 2731, 4282, 4740, 5028
 Zhang, Y. J. 3535, 9206
 Zhang, Y. L. 5388
 Zhang, Y. M. 824, 4107
 Zhang, Y. X. 4934, 10759
 Zhang, Y. Z. 7509
 Zhang, Z. 1480, 2603, 5184
 Zhang, Z. J. 5148
 Zhang, Z. L. 3655
 Zhang, Z. N. 1346
 Zhang, Z. Q. 1342
 Zhang, Z. T. 3274, 6343, 8508
 Zhang, Z. Y. 3620, 9518
 Zhantiev, R. D. 5374
 Zhao, B. G. 5297, 10614
 Zhao, D. X. 1727, 3928, 8733
 Zhao, G. 9422
 Zhao, G. S. 9359
 Zhao, H. Y. 4495
 Zhao, J. 4961
 Zhao, J. F. 9875
 Zhao, J. H. 8369
 Zhao, J. Z. 7523
 Zhao, K. 11002
 Zhao, K. J. 3654
 Zhao, R. Z. 4485
 Zhao, Z. R. 5729
 Zhegas, A. K. 810
 Zheleznova, T. S. 1987
 Zhen, C. S. 3627
 Zhen, W. 4869
 Zhen, Y. T. 2895
 Zheng, B. N. 8679
 Zheng, B. Y. 8435
 Zheng, L. S. 9518
 Zheng, L. Y. 8440
 Zheng, Q. F. 5782
 Zheng, T. Z. 3591
 Zheng, W. L. 9579
 Zheng, Y. S. 4921
 Zheng, Z. D. 9767
 Zheng, Z. L. 9462
 Zhengsun, W. 6063
 Zhenyui, L. 8834
 Zhigarevich, G. P. 3822
 Zhimerikin, V. N. 9021
 Zhimo, Z. 11452
 Zhing, M. L. 9425
 Zhivotkov, L. A. 10575
 Zhogin, A. F. 10555
 Zhong, L. S. 7508
 Zhong, Q. X. 1706
 Zhong, S. T. 1577
 Zhong, Y. 4313
 Zhou, A. N. 8367
 Zhou, D. Y. 9678
 Zhou, H. H. 3693
 Zhou, H. M. 9514
 Zhou, J. B. 6679
 Zhou, J. L. 6883
 Zhou, L. L. 1727
 Zhou, M. Z. 7872
 Zhou, Q. 424, 3449
 Zhou, Q. J. 9478
 Zhou, S. J. 8503
 Zhou, W. 3532
 Zhou, X. 5595
 Zhou, X. G. 7012
 Zhou, X. T. 5489
 Zhou, Y. F. 8331, 9472
 Zhou, Y. L. 3926
 Zhou, Y. N. 9359
 Zhou, Z. 1489
 Zhou, Z. J. 824
 Zhou, Z. M. 1982, 2436-2437
 Zhu, C. S. 9678
 Zhu, D. F. 9425
 Zhu, D. S. 10019
 Zhu, G. K. 3449, 4090
 Zhu, H. Q. 5982, 9422
 Zhu, J. 1605, 9206
 Zhu, K. Y. 11166
 Zhu, M. 1490
 Zhu, P. F. 3690
 Zhu, P. Q. 3673
 Zhu, R. 4869
 Zhu, S. 7628
 Zhu, S. D. 3844
 Zhu, S. M. 10177
 Zhu, W. D. 5639
 Zhu, X. X. 3581
 Zhu, Y. F. 4146-4147
 Zhu, Y. Q. 9579
 Zhu, Y. X. 3668
 Zhu, Z. 4513
 Zhu, Z. H. 9478
 Zhuang, P. J. 5179
 Zhuang, X. Q. 5640
 Zhukov, N. M. 2730
 Zhumanov, B. Zh. 274, 2455
 Zhuo, W. X. 8509
 Zhuo, Z. X. 8360
 Zhuravlev, V. N. 701, 722
 Zhuravleva, L. M. 3161
 Zhvarte, A. 1210
 Ziao, G. Z. 3396
 Zibareva, L. N. 8413
 Ziegenfuss, M. C. 8130
 Ziegler, H. 7312
 Ziegler, J. 3893, 8686
 Ziegler, R. 1073, 7371
 Ziemnicka, J. 7066
 Zijpp, S. van der 1518
 Zil'berg, L. P. 171, 2929
 Zilberman, D. 6102, 7447
 Zil'bermints, I. V. 3161
 Zile Singh 3013, 3840, 5785
 Zimányi, M. 4208
 Zimbabwe Tobacco Research Board 3944
 Zimet, D. J. 2667
 Zimin, Yu. M. 7686
 Zimmering, S. 7385
 Zimmerman, G. 5164
 Zimmerman, M. L. 6044, 11019
 Zimmerman, R. J. 7011, 9626
 Zimmermann, M. J. O. 11713
 Zimmermann, U. 5287
 Zing, J. M. 3085
 Zinov'eva, K. B. 2517
 Zirkle, D. F. 5100
 Zisknid, L. A. 8764
 Zitko, V. 8104, 11143
 Žitňan, D. 3305
 Zitzman, A. E. Jr. 7833
 Zlatanova, A. A. 545, 1553, 2743
 Złotkowski, J. 3399, 3435
 Zoberi, M. H. 11950
 Zoebelin, G. 1282, 1410
 Zoelen, A. M. van 10512
 Zohari, A. 664
 Zohdy, G. I. 5495
 Zolotikh, A. F. 545
 Zolubas, P. I. 7064
 Zongza, V. 76
 Zonta, L. A. 5351
 Zoologicheskii Zhurnal 2399
 Zorrilla, J. M. 4613
 Zou, F. Z. 9475
 Zou, W. H. 3103
 Zouros, E. 5271
 Zrazhevskaya, G. K. 4985
 Zu, G. 4513
 Zubeldia, L. 8690
 Zuber, M. S. 8490
 Zubkov, A. F. 4621
 Zucchi, H. 3966
 Zucchi, R. A. 8793, 9894-9895
 Zufall, F. 9083
 Zuhlke, J. L. 7491
 Zukrigl, S. 11001
 Žulidov, A. V. 5377
 Zumr, V. 794, 8825
 Zungoli, P. A. 2526
 Zúñiga, E. 5689, 6109
 Zúñiga, G. 367
 Zúñiga, G. E. 10578
 Zuo, Y. X. 1420, 7019
 Zurabova, E. R. 902, 3118, 5794
 Żurek, Z. 8880
 Zutshi, M. 11973
 Zwatz, B. 6147
 Zwetsloot, H. J. C. 1694
 Zwick, W. 1996
 Zwingelberg, H. 11035
 Zwölfer, H. 6645
 Zwolińska-Sniatałowa, Z. 4628
 Zwoliński, J. B. 5032
 Zwygart, F. 5799
 Zycherman, L. A. 3214

SUBJECT INDEX

- 242**
control, *Bruchus pisorum* 7090
mixtures, control, *Bruchus pisorum* 7090
- 8302**, control, Cerambycidae 9678
- 8310**, control, Cerambycidae 9678
- Abacarus**
Abacarus *afar*
coffee, Zaire 9525
taxonomy 9525
- Abacarus* *cynodonis*
Cynodon dactylon, Egypt 9525
taxonomy 9525
- Abacarus* *hystrix*
grasses, South Africa 9525
taxonomy 9525
- Abacarus* *sacchari*
sugarcane, Cape Verde 9525
taxonomy 9525
- Abamectin** (avermectin B₁)
books 11247
control
Acari 8771
Acromyrmex octospinosus 3491
Aculops lycopersici 6942
cabbages, insect pests 11695
Cornitermes cumulans 3464
Phytonemus pallidus 504
Polyphagotarsonemus latus 6957
Selenaspis articulatus 9715
Tetranychus cinnabarinus 4922
Tetranychus urticae 2746
Thrips palmi 10751
derivatives, toxicity, Lepidoptera 7183
effects
crayfish 9083
insects 1122
Liriomyza trifolii, parasitoids 4522
Lymantria dispar 5178, 11131
Tetranychidae 10688
formulations, oils 2010
metabolism
goats 11197
rats 11196
mixtures
control
Leptinotarsa decemlineata 2873
Polyphagotarsonemus latus 6957
Selenaspis articulatus 9715
nontarget effects, predatory insects 9715
toxicity, *Plutella xylostella* 5783
nontarget effects
predatory insects 9715
Thripidae 8771
residues
celery 6859
Citrus 570
oranges, commodities 864
Phaseolus vulgaris 11198
resistance
Cacopsylla pyricola 1565
Metaseiulus occidentalis 2510
Scirtothrips citri 11163
stability 11198
synergism 2798, 8089
toxicity
Acari 2880
Apis mellifera 11998
Chrysoperla externa 8336
Heliothis virescens 11978
Noctuidae 2010, 8089
Plutella xylostella 2798, 5783, 9764
stored products pests 1892
Tetranychus urticae 11198
Trichogramma demoraesi 245
- Abax ater** (see *A. parallelepipedus*)
- Abax parallelepipedus**
biology, predation 275
control, *Deroceras reticulatum* 598
ecology, population dynamics 8876
Fagus, forests, Belgium 8876
prey, Gryllidae 275
- Abax parallelepipedus* cont.
UK 598
- Abelia grandiflora*, *Texocoris nigrellus*, USA 2939
- Abelmoschus esculentus* (see Okras)
- ABG-6162** (see Thuringiensin)
- Abies**
Adelgidae 9987
forests, Araneae, North America 4025
Hemineura francescae, France 11003
Tortricidae, outbreaks 8880
- Abies alba*
Choristoneura murinana, France 10991, 11842
forest litter
Acari, France 7013
Adoristes ovatus, France 11012
Graellsia isabellae 1827
insects, Romania 6002
Siricidae, UK 9983
- Abies balsamea*
Choristoneura 3037
Choristoneura fumiferana 8836, 9964, 9992
Canada 8865
damage 1771, 1790
Maine 8905, 9949
Minnesota 4001
New Brunswick 7075, 7144
resistance 8854
Choristoneura occidentalis 10970
Coleoptera, Canada 4047
forests, Araneae, Maine 9949
insect pests, Michigan 8854
insecticides
persistence 10905
residues 7920, 8892-8893
Lambdina fiscellaria, Newfoundland 3005, 7915, 8852
Paradiplosis tumifex, Quebec 5972
Pityokteines sparsus, Manitoba 5962
- Abies concolor*
Choristoneura occidentalis, Arizona 1773
extracts, attractants, *Reticulitermes hesperus* 4077
Orgyia pseudotsugata
California 5925
Oregon 3988
- Abies fraseri*, *Oligonychus ununguis* 9968
- Abies grandis*
Choristoneura occidentalis
damage 1772
Montana 1791
- Abies koreana*, *Fiorinia externa*, UK 11864
- Abies lasiocarpa*, *Choristoneura occidentalis*, Montana 1791
- Abies pindrow*
forests, Chamaemyiidae, India 8917
habitats, *Rhizophagus*, India 1820
insect pests, India 8917
- Abies webbiana*, extracts, effects, Isoptera 1794
- Abietic acid, effects, *Manduca sexta* 10336
- Abietis koreana*, *Polygraphus nobuchii*, Korea Republic 5046
- Ablattaria arenaria*
biology 3521-3522
prey
snails 3522
Xeropicta derbentina 3521
Turkey 3521
- Abraxas grossulariata*, parasitoids 7505
- Abrus precatorius**
extracts
chemosterilants, *Dysdercus cingu-latus* 9869
repellents, *Tetranychus urticae* 2583
toxicity, *Tetranychus urticae* 7185
- Abutilon**, *Urentius hystricellus*, Pakistan 10865
- Abutilon indicum**
Amrasca devastans, varietal susceptibility 7875
Dysdercus koenigii 325
- Abutilon theophrasti**
Althaeus 3607
attractants, *Eucelatoria bryani* 7873
extracts, attractants, *Eucelatoria bryani* 7873
habitats, *Glabromicroplitis croceipes* 7871
Heliothis virescens, Mississippi 8769
insecticides, effects 6632
Niesthrea louisianica, damage 5551, 6631
Papaipema nebris 9549
- Acacia**
Calomela, Australia 9993
Eurycoccus 1831
Euseius minutisetus, Kenya 1833
Formicidae, interactions 11009
Tyndaris robusta, Mexico 2988
- Acacia aneura*, *Doratithynnus aliciae*, Australia 17
- Acacia arabica* (see *A. nilotica*)
- Acacia asak*, Coccoidea, Saudi Arabia 1831
- Acacia baileyana*, *Icerya purchasi*, South Australia 5942
- Acacia barringtonensis*, *Calomela relictata*, New South Wales 9993
- Acacia caven*, *Pseudopachymerina spinipes*, Chile 798
- Acacia erioloba*
Aceria giraffae, South Africa 11829
Bruchidae, Namibia 1789
- Acacia falciformis*, *Calomela relictata*, New South Wales 9993
- Acacia farnesiana*, *Oncideres pustulatus*, Texas 5956
- Acacia galpinii*, *Pentamerus*, South Africa 10012
- Acacia implexa*, *Jalmenus evagoras*, Victoria 1874
- Acacia irrorata*, *Jalmenus evagoras*, Queensland 1814
- Acacia karroo*, *Triophyteus myacanthus*, South Africa 1191
- Acacia longifolia*
biological control 6658
South Africa 6658
- Acacia macracantha*, *Cryptophlebia cortesi*, Chile 1038
- Acacia mangium*, *Leucopholis irrorata*, resistance 11791
- Acacia mearnsii*, insect pests, South Africa 5040
- Acacia melanoxylon*
Calomela relictata, New South Wales 9993
Jalmenus evagoras, Queensland 1814
- Acacia montana*, *Keria lacca* 9932
- Acacia myrtifolia*, Formicidae, Victoria 10396
- Acacia nilotica*
commodities, *Caryedon serratus*, India 10049
Euproctis lunata, Pakistan 796
Mylocerus menoni, India 2969
Sphenoptera chalcichroa, damage 1881
wood
Isoptera, damage 1794
Psammotermes hybostoma, damage 3067
- Acacia peuce*, *Chrysobothris subsimilis*, Australia 4007
- Acacia pycnantha*, *Jalmenus evagoras*, Victoria 1874
- Acacia rubida*, *Calomela relictata*, New South Wales 9993
- Acacia spectabilis*, *Jalmenus evagoras* 11809
- Acacia tortilis*, commodities, *Caryedon serratus*, India 10049

- Acacia tortilis spirocarpa*, *Auchmophila kordofensis*, Saudi Arabia 2963
- Acaenitinae**
biology 4577
Netherlands 1294
taxonomy 1294
- Acaenitus dubitator*
biology 4577
hosts, *Cleonis pigra* 1294, 4577
Netherlands 1294
UK 4577
- Acalitus*, fruits, damage 2694
- Acalitus adoratus*
control, *Eupatorium odoratum* 8433
Micronesia 8433
- Acalitus essigi*, small fruits, Switzerland 5700
- Acalymma blandulum*
physiology, enzymes 9170
taxonomy 9170
- Acalymma vittatum*
attractants 7788
control, physical control 10769
squashes, Illinois 7788
vegetables, Connecticut 10769
- Acanonicus hahni*
Argentina 7392
genetics, cytogenetics 7392
- Acanthacris*, groundnuts, Zambia 6910
- Acanthacris ruficornis*
biology, phenology 9372
food plants, South Africa 9372
- Acanthaspis pedestris*, biology, environmental factors 5493
- Acanthepeira stellata*
cotton, fields, Texas 8777
prey, cotton, insect pests 8777
- Acanthiophilus helianthi*
control, *Centaurea solstitialis*, evaluation 6643
food plants 6643
India 2692
parasitoids 2692
safflower, resistance 7849
- Acanthococcus*
Romania 7311
taxonomy 7311
- Acanthogregarina hoshidei*, hosts, *Liogryllus* 5124
- Acantholeucania loreyi* (see *Mythimna loreyi*)
- Acantholyda*
control, insecticides 810
Pinus, USSR 810
- Acanthomyops claviger*, prey, *Hypocala subsatura* 342
- Acanthomyops murphyi*, biology 10192
- Acanthophorus confinis*, *Citrus*, Ethiopia 1582
- Acanthophyllum*, *Aphidura acanthophylli*, Iran 10663
- Acanthopleura*, ecology 4271
- Acanthopleura cingulifer*
prey, insects 4271
taxonomy, new combination 4271
- Acanthopleura londti*, taxonomy, new species 4271
- Acanthoscelides cajanae*
Cajanus cajan, commodities, Brazil 3083
taxonomy, new species 3083
- Acanthoscelides gilvodes*, taxonomy, to *Paleoacanthoscelides* 3429
- Acanthoscelides obtectus*
biology 1916
competition 11897
environmental factors 851
control, insecticides 1638
morphology, glands 9181
parasitoids 1343
Phaseolus, commodities, resistance 868, 1916
- Phaseolus vulgaris*
Brazil 1638, 9785
commodities 11897
varietal susceptibility 8003
resistance 2822
physiology, enzymes 4302
plant extracts, effects 4087
- Acanthoscelides perforatus*
Astragalus canadensis, South Dakota 8784
parasitoids 8784
- Acanthoscelides puniceus*
Australian Northern Territory 8418
biology 8418
control, *Mimosa pigra* 8418
Mexico 8418
morphology, genitalia 8418
Thailand 8418
- Acanthoscelides quadridentatus*
Australian Northern Territory 8418
biology 8418
control, *Mimosa pigra* 8418
Mexico 8418
morphology, genitalia 8418
Thailand 8418
- Acaphylla steinwedeni* auct. (see *A. theae*)
- Acaphylla theae*
distribution, maps 6458
ecology, population dynamics 4961
predators 5902
tea 6458
China 4961
India 5902
- Acarapis dorsalis*
biology, behaviour 1267
detection 1271
hosts, *Apis mellifera* 1267, 1271, 4490
Oregon 1267
Washington 4490
- Acarapis externus*
biology, behaviour 1267
detection 1271
hosts, *Apis mellifera* 1267, 1271, 4490
Oregon 1267
Washington 4490
- Acarapis woodi*
Albania 259
biology 1266, 10431
behaviour 1267
control, acaricides 1272, 1274, 7498
detection 1271
distribution 1241, 1266
Costa Rica 1273
hosts
Apis 6574
Apis mellifera 259, 1241, 1267-1272, 1274, 4475, 4490, 4528, 6575, 7287, 7497-7499, 10431, 10473, 11271, 11454
Illinois 1270
Mexico 1269, 7499
Minnesota 7497
North America 6574, 7287
conferences 11271
North Carolina 10431
Oregon 1267, 10473
Pennsylvania 6575
Washington 4490
- Acarhynchus bamboovegrans*
Bambusa vulgaris, India 10738
taxonomy, new species 10738
- Acari** (see also *Mites*)
apples, Massachusetts 8617
bibliographies 2084
biology 1775
environmental factors 7030
Brazil 6452, 6525
cassava, Trinidad and Tobago 1701
cereal grains, Belgium 11033
cereals, UK 10190
Chile 5231
Cinnamomum tamala, galls 10533
Citrus, orchards, Pakistan 2759
coconuts, plantations, India 6782
control
acaricides 3766-3767, 6792-6794
biological control 11113
integrated control 1713, 8617
nematodes 1968
Cryptomeria japonica, plantations, Japan 7030
distribution
Austria 6780
California 1984
ecology 1694
population dynamics 7909, 7934
evolution 6275
- Acari cont.**
forests
Korea Republic 8882
reviews 1775
fruits
damage 2694
Italy 11621
fungi, interactions 8999
grapes, Austria 3765-3767, 6792-6794
greenhouse crops, German Democratic Republic 11113
hosts
Apis 1242
Rhynchophorus ferrugineus 6782
India 12021
insecticides
effects 7957
toxicity 11204
morphology 6275
natural enemies 6792
North America 9157
oranges, Japan 6828
pesticides, effects 3765, 6828
pheromones 8161
reviews 7342
Pinus taeda, phoresy 5015
plant pathogens, transmission 5703, 11084, 11899
plants
Australasia 7909
interactions 10464
potatoes, fields, Netherlands 1694
predators 374, 5700, 6525, 10464
prey 5700
Acari 10464
Aleurocanthus woglumi 2759
Colombia 7030
Cryptostigmata 7030
research workers, Australasia, directories 6232
rodenticides, toxicity 8124
sampling 5404
soil
Brazil 1859
India 7934
Switzerland 374
taxonomy 1836, 9157
tea, Sri Lanka 3955
vegetables, Panama 1713
vineyards, Austria 3765
weeds, New South Wales 2572
- Acaricidal properties**
Abrus precatorius, extracts 7185
Annona bullata, extracts 9038
2,2-dimethyl-3-(3-phenoxybenzyloxy)propanal, derivatives 11963
plants, extracts 4067
- Acaricide resistance**
Amblyseius nicholsi 5905
bioassays 4935
management, chemical industry 9042
Metaseiulus occidentalis 2510
Myzus persicae 935
Neoseiulus longispinosus 10882
Panonychus ulmi 4754
pest resistance, interactions 11731
Phytoseiulus persimilis 11217
Tetranychidae 2737, 10689
Tetranychus 4935, 11162
Tetranychus pacificus 2719
Tetranychus urticae 2746, 3161, 3790, 6819, 6995, 9058-9059, 11731
- Acaricides**
application 744
books 11248
control
arthropod pests 11115-11116
cotton, mites 2902
grapes, arthropod pests 11627
Panonychus ulmi 552
vegetables, Acari 1713
development 11136
effects, predatory mites 3796
evaluation 946
information 10185
Italy 10115
Mediterranean countries 4227
tropics 4227
USSR 395-396, 398, 401, 427, 626, 678, 909, 2600, 2862, 3132
mixtures, compatibility 942

Acaricides cont.

Netherlands, uses 5180
nontarget effects 985
 Aleochara bilineata 1292
 Apis mellifera 12004
 arthropods 9035
 beneficial arthropods 3765, 4157, 6792, 6828
 parasitoids 2740
 testing 4157
 Typhlodromus exhilaratus 5711
pest control, Africa 1011
registration, USA 9487
residues
 apples, commodities 10045
 determination 12035
sprayers 1599
toxicity
 Acari 2880
 Amblyseius mckenziei 6577
 evaluation 9052
 Rhizoglyphus 9052
 toxicology 9036
 usage 11248
Acaricoris ignotus, forests, Texas 5001
Acaridae
 distribution, Philippines 7080
 spinach, Japan 1606
Acarology, books 10208-10209
Acaropsellina sollers
 Citrus, orchards, Egypt 573
 prey, Tetranychidae 573
Acartia tonsa
 Maryland 8130
 pesticides, nontarget effects 8130
Acarus farris
 cereal grains, UK 8942
 man, allergens 8942
 predators 6565
Acarus siro
 biology
 environmental factors 8460
 reproduction 11878
 sex ratio 3400
 cereal grains 11036
 UK 8942
 chemosterilants 8939-8940
 control, insecticides 11876
 extraction 6494
 hay 6494
 man, allergens 8942
 oats, commodities, Manitoba 11876
 pheromones 8945
 radiation, effects 11878
 wheat
 commodities 8945
 damage 8460
Acaulona, hosts, *Dysdercus albofasciatus* 2908
Acephate (*O,S*-dimethyl acetylphosphoramidothioate)
 control
 Aphididae 700
 Corythucha ciliata 8807
 cotton
 insect pests 10861
 Thysanoptera 2919
 Dasineura swaini 1884
 Euprosterna elaeisa 1543
 Frankliniella occidentalis 7007, 7901, 9546
 Lepidoptera 7876
 Leptopharsa gibbicarina 1543
 Liriomyza 623
 Lygus 2680
 Oebalus pugnax 9597
 Phaseolus vulgaris, insect pests 1639
 Phthorimaea operculella 11741
 Plutella xylostella 4825
 Pseudotsuga menziesii, insect pests 2999, 5998, 6007
 rice tungro virus, vectors 9583
 Stenoma impressella 1543
 tomatoes, insect pests 1714
 effects
 cotton 11775
 Noctuidae 10802
 mixtures
 control
 Corythucha ciliata 2980, 8807

Acephate cont.

mixtures cont.
 control cont.
 Liriomyza 623
 Orthezia praelonga 4954
 toxicity
 Heliothis virescens 2921
 Myzus persicae 6158
 Panonychus citri 9706
nontarget effects
 aquatic organisms 2039
 Braconidae 10802
residues
 aubergines 6948
 cabbages 3859
 food 1023
resistance
 Aphis gossypii 7821
 Myzus persicae 6157
 Plutella xylostella 10106
 Scirtothrips citri 5750, 11163
synergism 2921
toxicity
 Aleurocanthus woglumi 4781
 beneficial insects 3497
 Chelonus blackburni 1280
 Choristoneura occidentalis 3002
 determination 7176
 fishes 6174
 Heliothis virescens 2921, 11976
 man 8099
 Mylabris phalerata 10808
 Tephritidae 11980
Acer
 Euproctis chrysorrhoea, Italy 5970
 Heterarthrus, Italy 3994
 Hyphantria cunea, USSR 9021
 trees, parasitoids, Italy 5970
 Yamatocallis brevicauda, India 2967
Acer campestre, *Psallus assimilis*, France 4042
Acer negundo
 Hyphantria cunea, Italy 5960
 Leptocoris trivittatus, USA 7053
Acer pensylvanicum
 insect pests
 damage 7911
 Virginia 7911
Acer platanoides
 Messa hortulana, Poland 4038
 Pharnacia acanthopus 4298
Acer pseudoplatanus
 Curculio vicetinus, Italy 9952
 Ossiannilssonola callosa, damage 8894
Acer rubrum
 Buprestidae, Kentucky 11000
 extracts, effects, nuclear polyhedrosis viruses 8883
 insect pests, interactions 3973
 insecticides, residues 8892
 Lymantria dispar 8883
 allelochemicals 8887
 Polia latex, West Virginia 5943
 Popillia japonica 11820
Acer saccharinum, *Reticulitermes flavipes*, Ontario 11950
Acer saccharum
 arthropods, Ohio 811
 Lymantria dispar, Ontario 7954
 Odontota dorsalis, damage 10985
 Reuteria craigi, Missouri 815
Acer semenovi, *Psylla emeljanovi*, USSR 5075
Acer villosum, *Yamatocallis brevicauda*, India 2967
Aceratagallia sanguinolenta
 food plants, Minnesota 10885
 plant pathogens, transmission 10885
Aceratoneuromyia indica
 distribution, Costa Rica 4479
 hosts, Tephritidae 4479
Aceria
 figs, Iran 566
 Manilkara hexandra, India 1883
Aceria cajani
 Cajanus cajan, India 6901
 plant pathogens, transmission 6901
Aceria caulobius
 Italy 3628
 predators 3628
 Suaeda fruticosa, galls 3628

Aceria caulobius cont.

 taxonomy, from *Eriophyes* 3628
Aceria chondrillae, California 1383
Aceria ficus, figs, Iran 566
Aceria giraffae
 Acacia erioloba, South Africa 11829
 taxonomy, new species 11829
Aceria guerreronis
 biology 8550
 coconuts
 Costa Rica 8550
 Cuba 498
 St. Lucia 3759
 Cocos weddelliana, Brazil 7710
 control 3759
 morphology 8550
 pathogens 498
Aceria mali, distribution, South Africa 9674
Aceria thomasi, *Thymus*, Italy 11523
Aceria tulipae
 Dactylis glomerata, Quebec 7671
 plant pathogens, transmission 7596
 plant viruses 4620
 wheat, resistance 4620, 7596
Aceria zelkoviana
 Korea Republic 11828
 taxonomy, new species 11828
 Zelkova serrata, galls 11828
Acerophagus coccois
 hosts, *Oracella acuta* 11801
 Pinus taeda, plantations, Georgia 11801
Aceropyga egmondiae
 forest trees, Oceania 10239
 taxonomy, new species 10239
Acetaldehyde, effects, Gastropoda 950
Acetic acid
 pheromones, *Mythimna unipuncta* 75
 toxicity, *Spilosoma obliqua* 10114
Acetropis gimmerthalii
 Anthoxanthum odoratum 8303
 distribution, Netherlands 8303
Achaea janata
 biology 5868, 9862
 behaviour 7411
 development 2178
 diets 1095
 ectoparasites 4533
 food plants 9862
 Hawaii 4533
 insecticides
 effects 7187
 pathogenicity 7141
 toxicity 1721, 3159
 morphology, antennae 2160
 natural enemies 8765
 parasitoids 3525, 5479, 7520
 phagostimulants 7411
 physiology, nutrition 1095
 plant extracts
 antifeedants 3922
 effects 929, 6216
 Ricinus communis 3922, 5868, 6216
 India 1721, 8765
Achaearana riparia
 habitats, Switzerland 374
 prey, arthropods 374
Achaearana taeniata
 biology, survival 9950
 forests, Costa Rica 9950
Achaearana tepidarium
 biology 5410
 dwellings, Japan 5410
 morphology, colour 9412
Achaearana veruculata
 Araneae, interactions 11435
 predators 4472
Achatina, predators 313
Achatina fulica
 biology 3600
 control 11499
 diets 3600
 distribution, Ivory Coast 5537
 food plants, India 5536
 India 11499
 molluscicides, toxicity 5536
 pathogens 11499
 physiology
 reproduction 2542
 reproductive organs 3602

- Achatina fulica* cont.
physiology cont.
sense organs 8403
- Achelura bifasciata*
biology 3775
fruit trees, India 3775
- Acheta domesticus*
biochemistry, eggs 10307
biology
behaviour 3376, 9306
development 3270
drugs, effects 9306
Egypt 281
food, rats 7468
insecticides, effects 1122
morphology, excretory system 7318-7319
pesticides, toxicity 11212
physiology
circadian rhythm 7417
digestive system 9211
diuresis 9270
endocrine system 2266, 3327
enzymes 2193, 7339
fatty acids 3344, 7376
juvenile hormones 6360
nervous system 2240, 3307, 6331
secretions 60, 1075
sense organs 7361
predators 5430
Psammotermes hybostoma, interactions 281
songs 6331
starvation, effects 3376
- Acheta gossypii*, Italy 5416
- Achillea millefolium*, Macrosiphini, New Zealand 1398
- Achipteria coleoptata*
ecology, distribution 9325
soil 9325
- Achipteria holomonensis*
ecology, distribution 9325
soil 9325
- Achlya flavicornis galbanus*
Betula pendula, UK 7040
biology 7040
- Achras zapota* (see Sapodillas)
- Achroia grisella*
biology 1286
behaviour 3379
detection 3379
distribution, Japan 1286
microorganisms, interactions 8319
morphology
brain 5275
sense organs 10250
- Achroia innotata obscurivittella*
Apis cerana, interactions 1286
biology 1286
distribution, Japan 1286
natural enemies 1286
- Achurum carinatum brevipenne*
biology, food plants 2669
grasses, Florida 2669
- Achyranthes aspera*, *Bemisia tabaci*, India 6533
- Acia lineatifrons*
biology 6788
food plants, South Africa 6788
- Acigona ignefusalis* (see *Coniesta ignefusalis*)
- Acigona steniella* (see *Bissetia steniella*)
- Acigona steniellus* (see *Bissetia steniella*)
- Aclerda takahashii*
distribution, maps 6457
sugarcane 6457
- Acleris minuta*, biology, development 7450
- Acleris undulana*
biology 7021
Cedrus, Morocco 7021
- Acleris variana*, ecology, population dynamics 10960
- Acmaeops angusticollis*
Acmaeops smaragdulus, misidentification 10890
Picea abies, Poland 10890
- Acmaeops smaragdulus*, *Acmaeops angusticollis*, misidentification 10890
- Acmenychus caucasicus*, distribution, Turkey 9493
- Acmenychus inermis*, distribution, Turkey 9493
- Acmenychus planus*, distribution, Turkey 9493
- Acontia cretata*
parasitoids 8425
Texas 8425
- Acorns*, *Sitophilus zeamais*, Georgia 8829
- Acorus calamus*
extracts
toxicity
Corcyra cephalonica 2014
Epilachna vigintioctopunctata 938
insecticidal properties, reviews 5082
oils
effects, *Peridroma saucia* 10536
mutagenicity, bacteria 7197
nontarget effects, rats 7196
repellents, *Rhyzopertha dominica* 10032
toxicity, stored products pests 6678
volatility 5082
- Acraea horta*
biochemistry, cyanogenic glycosides 3985
Kiggelaria africana, South Africa 3985
- Acraeinae*, taxonomy 5253
- Acrantus vestitus*, forest trees, USSR 2948
- Acremonium lolii*
extracts, antifeedants, *Listronotus bonariensis* 9108
Listronotus bonariensis, interactions 10634, 10638
repellents, *Listronotus bonariensis* 7676
- Acremonium strictum*, hosts, arthropods 3096
- Acrex* (see *Dinobuton*)
- Acrida chinensis* (see *A. cinerea*)
- Acrida cinerea*
biochemistry, enzymes 9197
rice, China 3685
- Acrida exaltata*
genetics, karyotypes 9279
India 9279
insecticides, toxicity 186
- Acrididae**
Alberta 3479, 10094
biology 7277
environmental factors 3472, 10642
food consumption 2535
cell cultures 1099
control 7300
insecticides 7713, 9627
microbial pesticides 3479, 8660
deserts, USSR 3478
distribution, Michigan 1222
ecology
population density 10094
population dynamics 3478, 10210
spatial distribution 4437
evolution 4286
field crops, Sahel 7300
food, man 1355
genetics 8321
chromosomes 1130
genes, enzymes 4438
grasses, Kansas 8528
grasslands
Arizona 10642
Saskatchewan 4438
South Dakota 9627
USA 3472
Wyoming 8660
insecticides, toxicity 7598
morphology, nymphs 7277
oil palms, Malaysia 7713
pastures, Spain 2535
pathogens 3466, 4149, 5128
Phoetaliotes nebrascensis, interactions 8528
physiology
development 998
nervous system 1099, 5321, 6326-6327
sense organs 6346
Poland 4149
predators 5413, 8348, 9368
rangelands 4684
Montana 4437
research projects 5423
- Acrididae cont.**
Sahel
books 7277
reports 7300
sampling 10094
- Acridinae**
India 6271
physiology, sense organs 6346
taxonomy 6271
- Acridoidea**
ecology, water relations 2330
grasslands 7279
Kenya 2330
West Africa, books 7279
- Acridotheres ginginianus*, prey, *Helicoverpa armigera* 9820
- Acridotheres tristis*
prey
Hieroglyphus banian 3716
Myzus persicae 11524
Scarabaeidae 2338
- Acridotheres tristis tristis*, prey, *Helicoverpa armigera* 10059
- Acrobasis nuxvorella*
pecans, USA 4725
sampling 4725
- Acrocercops**
control, cultural control 1652
Vigna, India 1652
- Acrocercops caerulea* (see *Phodoryctis caerulea*)
- Acrocercops gemoniella*, *Manilkara hexandra*, India 1883
- Acrodipsas illidgei*
biology 11358
morphology 11358
prey, *Crematogaster* 11358
Queensland 11358
- Acrolepiopsis assectella*
Allium 10748
Poland 1704
attractants 721
kairomones 10748
leeks, Netherlands 7832
morphology, sense organs 6941
parasitoids 235, 1704, 4509
plant extracts, effects 10840
sampling 7832
- Acrolepiopsis betulella*
Allium ursinum 9735
distribution, UK 9735
- Acrolophidae**, phylogeny 5
- Acrolophus*, *Chaetorellia acrolophi*, Europe 6639
- Acromyrmex**
bibliographies 12015
biology 9373
distribution 9373
fungi, interactions, reviews 4459
prey, *Metepeira* 4357
- Acromyrmex lundii pubescens*
Atta vollenweideri, interactions 10425
South America 10425
- Acromyrmex octospinosus*
control, insecticides 3491
Costa Rica 2429
Guadeloupe 3491
plant extracts, effects 2429
- Acromyrmex subterraneanus brunneus*
biology 9891
cocoa, Brazil 9891
- Acromyrmex versicolor*
biology, behaviour 200
genetics, population genetics 2425
- Acronicta rumicis*, physiology, environmental factors 3395
- Acropimpla leucostoma*
forests, India 10980
hosts, *Pteroma plagiophleps* 10980
- Acrosternum bellum*
food plants, Brazil 11721
morphology 11721
Ricinus communis 11721
- Acrosternum gramineum*
Cleome viscosa, India 5004
parasitoids 5004, 6544
- Acrosternum hilare*
biology 7057
cotton, North Carolina 10860
ecology 7057
forest trees, Canada 7057

- Acrosternum hilare** *cont.*
monitoring, traps 9331
soyabeans, Kentucky 9803
USA 9331
- Acrosternum impicticorne**, soyabeans, Paraguay 3880
- Acrotylus**, Mediterranean countries 5259
- Acrotylus insubricus**
Mediterranean countries 5259
taxonomy, synonyms, of *Acrotylus patruelis* 5259
- Acrotylus patruelis**
fungicides, effects 2329
mercury, effects 3197
taxonomy, synonyms, of *Acrotylus insubricus* 5259
- Acrylonitrile**
determination 11139
residues, cereal grains 11139
toxicity, stored products pests 845
- Actebia fennica** (see *Ochroleura fennica*)
- Actellic** (see Pirimiphos-methyl)
- Actias artemis**, physiology, senses 10301
- Actias selene ningpoana**
food plants, Taiwan 4002
morphology, larvae 4002
- Actiniedida** (see Prostigmata)
- Actinidia deliciosa** (see Kiwifruits)
- Actinodaphne maderaspatana**, insect pests, India 10979
- Actinomycetales**, insecticides, effects 4211, 6820, 8783, 10123
- Aculeata**, forests, Poland 7048
- Aculops**
control 3035
Gleditsia 3035
India 6269
taxonomy 6269
- Aculops dilleniae**
Dillenia indica, India 6269
taxonomy, new species 6269
- Aculops lycopersici**
control
acaricides 6942, 10752
integrated control 10847
distribution, maps 6457
Egypt 324
food plants 6457
greenhouse crops, France 10752
tomatoes
Brazil 6942
California 7838
Israel 10847
- Aculus fockeui**
peaches, China 5947
predators 220
- Aculus schlechtendali**
apples
Belgium 10706
Italy 2734
Netherlands 8614
Nova Scotia 2738, 10701
Poland 3800
Switzerland 10708
biology, overwintering 3800
control
acaricides 8614, 10701, 10706
insecticides 2738
ecology, population dynamics 2734
predators 8344, 10453, 10701
- Acute paralysis virus**
hosts, arthropods 10478
vectors, *Varroa jacobsoni* 10478
- Acyrtosiphon**
genetics 3350
India 3350
- Acyrtosiphon gossypii**
cotton, USSR 2903
sampling 2903
- Acyrtosiphon kondoi**
biology, reproduction 11463
control, insecticides 2686
lucerne
California 11611
Japan 9632
Minnesota 7696
New South Wales 2686
New Zealand 1532
resistance 1534, 7687
varietal susceptibility 7688, 7691-7692
- Acyrtosiphon kondoi** *cont.*
parasitoids 1532, 11463
pasture legumes, New South Wales 3736
predators 2679, 9632
sampling 2686
Vicia sativa, Japan 2679
- Acyrtosiphon lactucae**, distribution, Jordan 5392
- Acyrtosiphon malvae rogersii**, strawberries, Norway 10674
- Acyrtosiphon nipponicus**
Paederia scandens 2467
physiology, defence 2467
predators 2467
- Acyrtosiphon pisum**
bacteria, symbiosis 6293
biology 3741
development 7793
environmental factors 9283, 9637
migration 10652
phenology 7795, 9631
reproduction 11463
biotypes 642
Cicer arietinum 8724
control 2825
cultural control 1695
insecticides 2823
microbial pesticides 3125
ecology, distribution 11607
field crops, Hungary 8446
food crops, Iowa 2677
forecasting 1695
genetics, polymorphism 1533
German Democratic Republic 11123
insecticides, toxicity 8083
legumes
Georgia 2818
Montana 1525
lentils, USA 5805
Lotus corniculatus, Wisconsin 1528
lucerne
Australia 3741
California 11611
Canada 9637
Georgia 6766
Iran 9639
Italy 9631, 11607
Manitoba 9283, 10652
Minnesota 7696
New Zealand 1532
North America 1533
resistance 1534, 7687
varietal susceptibility 7688-7690, 7692
monitoring, traps 5808, 11123
natural enemies 9631
North America 2451
parasitoids 1532, 2451, 4506, 6566, 8393, 11463
pathogens 894, 2818, 8972
peas 5809
France 4851
German Democratic Republic 641-642, 2826, 5808
India 2825
Japan 7795
USSR 649, 1646, 2823
varietal susceptibility 10794
physiology
excretion 9217
lipids 11345
plant extracts, toxicity 1413
plant pathogens 2683
transmission 5125, 7790
pollution, effects 5809
potatoes 1695
predators 247, 649, 1525, 2479, 2679, 3503, 5805, 9447
sampling 4851, 5805, 6766, 11607
symbionts 9217
USSR 3125
Vicia faba 2382, 4844, 7793, 9217
Syria 7790
Vicia sativa, Japan 2679
Vigna unguiculata, Egypt 650
- Acyrtosiphon solani** (see *Aulacorthum solani*)
- Adalia bipunctata**
biology, melanism 3544
Europe 3544
- Adelges, Larix occidentalis**, USA 6011
- Adelges cooleyi** (see *Gillelteella cooleyi*)
- Adelges knucheli**
forest trees, India 8917
predators 8917
- Adelges tsugae** (see *Chermes tsugae*)
- Adelina**, hosts, *Hypera brunneipennis* 482
- Adelina bifurcata**
dead trees, Mexico 3983
taxonomy 3983
- Adelonia sulcatulus**
Spondias purpurea, Mexico 3983
taxonomy 3983
- Adelphocoris lineolatus, Lotus corniculatus**, Wisconsin 1528, 9628
- Adelphocoris suturalis**
biology 738
food plants, China 738
- 3-Adenin-9-yl-2-hydroxypropanoic acid**, chemosterilants, *Pyrrhocoris apterus* 2297
- Adenophora pulchella**
Guatemala 10485
Nasutitermes corniger, interactions 10485
- Adenosine deaminase**, production, Noctuidae 11108
- Adephaga**
Australia, catalogues 12032
ecology 12032
morphology 1042
taxonomy 12032
keys 10198
USSR 10198
- Aderidae**
North America 11816
taxonomy 11816
- Adiantum decorum, Callopietria floridensis**, India 3961
- Adina racemosa**
Eriophyidae, China 5947
Spinaetergum adinae, China 5948
- Adipokinetic hormones**
Acheta domesticus 2266
Barytettix psolus 7371
insects 9257
Locusta migratoria 1276, 2407
Schistocerca gregaria 1114
- Adisura atkinsoni**
biology, phenology 3869
Lablab purpureus, India 3869
- Adjuvants**, measurement 1998
- Adonia variegata** (see *Hippodamia variegata*)
- Adoristes ovatus**
Abies alba, forest litter, France 11012
biology 7013, 11012
forest litter, France 7013
- Adoryphorus coultoni**
Lolium perenne, Tasmania 10641
morphology 10641
pastures, Victoria 6760
pathogens 6760
- Adosomus**
Artemisia, China 3627
biology 3627
control, insecticides 3627
natural enemies 3627
- Adoxophyes**
control, mating disruption 5909
parasitoids 234, 9901
pheromones 8797
Rosa, Japan 5909
tea
Sri Lanka 3955
Taiwan 8797
- Adoxophyes orana**
apples
China 2731, 4740
German Democratic Republic 542
Switzerland 3751, 8613, 10712
biology, behaviour 6803
control
biological control 535, 2731, 4740
growth regulators 4762
insecticides 2690, 3751, 5723, 10712
fruit trees, China 535
fruits, German Democratic Republic 2690

- Adoxophyes orana* cont.
growth regulators
effects 3777
toxicity 8613
parasitoids 4736
pears, Switzerland 4762
pheromones 6803
pome fruits, Switzerland 5723
- Adoxophyes reticulana* (see *A. orana*)
- Advantage** (see Carbosulfan)
- Adzuki beans** (see *Vigna angularis*)
- Aedes aegypti*, insecticides, effects 8115
- Aegeria apiformis* (see *Sesia apiformis*)
- Aegialidae*, catalogues 9123
- Aegilips**
biology 1866
hosts, *Rhyacionia zozana* 1866
USA 1866
- Aegilops squarrosa*, insect pests, resistance 7595
- Aegopinella nitidula*, forests, Poland 6615
- Aegopodium podagraria*, *Orsodacne cerasi*, USSR 11506
- Aegyptobia aletes*
conifers, France 2958
predators 2958
- Aelia**
monitoring 8461
wheat, Hungary 8461
- Aelia furcula*
food plants, Iran 341
parasitoids 341
- Aeliomorpha coimbatorensis*
taxonomy, new species 3244
Trifolium alexandrinum, India 3244
- Aeluropus littoralis*, *Porphyrophora hame-
lii* 2539
- Aeneolamia reducta*
grasses 11406
rearing techniques 11406
- Aeneolamia selecta*
biology, phenology 8531
Digitaria decumbens, Brazil 8531
monitoring 8531
- Aeneolamia selecta selecta*
biology 9616
monitoring 9616
pastures, Brazil 9616
- Aeneolamia selecta transversa*
biology 9616
monitoring 9616
pastures, Brazil 9616
- Aeneolamia varia saccharina*
control, microbial pesticides 6694
sugarcane, Trinidad and Tobago 6694
- Aenetus*, biology, behaviour 4993
- Aenetus cohici*, forest trees, Australasia 4993
- Aenetus dulcis*, forest trees, Australasia 4993
- Aenetus paradiseus*, forest trees, Australasia 4993
- Aenetus virescens*, forest trees, Australasia 4993
- Aenictus pachycerus*
prey, *Agriotes* 4853
Vigna, fields, India 4853
- Aenigmaphycus**
hosts, *Eulecanium douglasi* 4539
taxonomy, new genus 4539
Xenaphycus, differentiation 4539
- Aenigmaphycus paluster*
Finland 4539
taxonomy, new species 4539
USSR 4539
- Aenoronchytes*
prey, *Datana integerrima* 2717
walnuts, orchards, Mexico 2717
- Aerial insects**, sampling 2394
- Aeroglyphus robustus*
control, insecticides 11876
oats, commodities, Manitoba 11876
pheromones 8945
wheat, commodities 8945
- Aeropedellus clavatus*, pathogens 10054
- Aesalus scarabaeoides*, biology 9957
- Aesalus scarabaeoides meridionalis*
Italy 9957
taxonomy, new subspecies 9957
- Aeschynomene americana*
Aphis craccivora, Georgia 3774
- Aeschynomene americana* cont.
Selenisa sueroides, Florida 7489
- Aeschynomene virginica*, biological control 10517
- Aesculus hippocastanum*, *Cameraria ohridella*, damage 829
- Aetalionidae**
bibliographies 7250
biology 7250
morphology 7250
natural enemies 7250
taxonomy 7250
- Afghanistan**
Aphididae 6853
Lepidoptera 8302
Nabidae 6474
Schistocerca gregaria 1219
- Aflatoxins**
mixtures, toxicity, Noctuidae 11158
synergism 11158
- Africa**
Achatina fulica 5537
Acrididae 2590
books 7277
reports 7300
Acridoidea, books 7279
Agaon 10718
Aleurocybotus indicus 442
Aleurodicus dispersus 6454
Anisopteromalus 4465
Antestiopsis 769
Anthemus 3574
Aphididae 7044
Arctiidae 2132
arthropod pests, maps 6455, 6457-6459
Aulacophora foveicollis 11389
Berberomeloe majalis 6531
botanical insecticides, usage 4228
Bruchidae, parasitoids 6592
Buprestidae 1155
cereals, arthropod pests 2591
Coniesta ignefusalis 420
Copris 6262
cotton
arthropod pests, books 7265
Heteroptera 5884
crops
pest control 900, 1964
reports 5246
Cryptophlebia leucotreta, parasitoids 3755
Danaus chrysippus 1180
Delphacidae 2155
Euchromius 1
field crops
arthropod pests 1011
books 1011
Gastropoda 5538
Gracillariidae 3236
Helicoverpa armigera, natural enemies 1323
Hypothenemus hampei, parasitoids 6986
insect pests, maps 6456, 6460
insects, identification 1000
Isoptera 831, 1350, 5509
millets, insect pests 2641
Mononychellus tanajoa 2875
books 7276
oil palms, pollinators 1541
Onthophagini 10227
pest control
books 11258
information 5145
Phenacoccus manihoti, parasitoids 9842, 10836
Phytoseiidae 2876
Prostephanus truncatus 1907
Pyralidae, parasitoids 6552
Rastrococcus invadens, biological control agents 10658
rice, insect pests 2650
Scarabaeidae 1369
Schistocerca gregaria 4441
Scolytidae 3230
soil fauna 1165, 1364-1365
soil invertebrates 1349
sorghum
insect pests 3717
Lepidoptera 1509
Spodoptera exempta 2589, 3140
- Africa** cont.
Striga, natural enemies 9489
sweet potatoes, conferences 6238
Toxoptera odinae 6626
Trogoderma granarium 8930
vegetables, books 2091
Zonocerus variegatus 4444, 5417
- Afrocypholaelaps lindquisti*
distribution, Vietnam 4533
Hawaii 4533
hosts, insects 4533
- Afroheterozercon*, taxonomy, new genus 11479
- Afroheterozercon ancoratus*
Cubitermes, interactions 11479
taxonomy, new species 11479
Zaire 11479
- Afromerus*, taxonomy, new genus 11829
- Afromerus florinoxus*
Securinea virosa, South Africa 11829
taxonomy, new species 11829
- Afromerus lindquisti*
Canthium mundanum, South Africa 11829
taxonomy, new species 11829
- Afromerus rubisinus*
Psychotria capensis, South Africa 11829
taxonomy, new species 11829
- Afromerus sericeae*
taxonomy, new species 11829
Terminalia sericea, South Africa 11829
- Afroryzophilus*, taxonomy, new genus 10613
- Afroryzophilus djibai*
biology 10613
rice, Senegal 10613
taxonomy, new species 10613
- Afrotropical Region**
Anisopteromalus 4465
Aphodius 10228
Atherigona 6680
Copris 1031
- Agalis**
Nearctic Region 9155
Palearctic Region 9155
- Agalliana**
monitoring, traps 4859
soyabeans, Argentina 4859
- Agalliana ensigera*
host plants, Argentina 6764
monitoring, traps 6764, 6890
soyabeans, Argentina 6890
- Agalope hyalina*
apples, India 11639
parasitoids 11639
- Agamermis*, hosts, *Parasa viridissima* 1542
- Agamermis unka*, hosts, *Nilaparvata lugens* 7618
- Agaon**
Africa 10718
Ficus, pollination 10718
taxonomy 10718
- Agaonidae**
biology, behaviour 8638
Ficus, pollination 5743
Ficus hispida, Malaysia 8638
Kenya 5743
- Agapanthia**
Cardueae 6645
morphology, size 6645
- Agapanthia dahl*
biology 4910
Hungary 4910
- Agapanthia villosoviridescens*
Aster tripolium, Netherlands 5572
biology, development 5572
- Agaricus bisporus*
arthropod pests, India 8159
Cecidomyiidae 2791
Drosophilidae, New Jersey 10757
pests, New Jersey 5778
Tarsonemus wangi, China 10759
- Agaristidae**
Saudi Arabia 144
taxonomy 144
- Agathia*, *Gymnanthera nitida*, Queensland 1393
- Agathidium*, Nepal 10004

- Agathidium querceum**
litter, Nepal 10004
taxonomy, new species 10004
- Agathis**
cotton, fields, India 1733
hosts
 Cydia molesta 4767
 Earias vittella 1733
peaches, orchards, Chile 4767
- Agathis gibbosa**
California 4590
hosts, *Coleophora klimeschiella* 4590
- Agathis malvacearum**
Arctium minus, habitats, USA 3619
hosts, *Metzneria lappella* 3619
- Agelaius phoeniceus**, *Ostrinia nubilalis*,
interactions 4641
- Agelenopsis aperta**
biology, behaviour 10442
genetics, selection 10442
prey, insects 10442
USA 10442
- Ageneotettix deorum**
control, insecticides 9627
ecology, population dynamics 10210
grasslands, South Dakota 9627
- Ageniaspis**
biology 5982
forests, China 5982
hosts, *Paraleucoptera sinuella* 5982
- Ageniaspis fuscicollis**
apples, orchards, USSR 550
control, *Yponomeuta* 2720
habitats, Poland 5069
hosts
 Yponomeuta malinellus 550, 2722
 Yponomeuta padellus 5069
orchards, USSR 2720, 2722
- Ageratina riparia**, biological control 10517
- Ageratum conyzioidea**, extracts, effects,
 Lipaphis erysimi 614
- Ageratum conyzoides**, extracts, toxicity,
 Aulacophora foveicollis 11709
- Ageratum houstonianum**, *Helicoverpa*
 armigera, damage 6997
- Aggregation pheromones**
synergism 4056
 Anthonomus grandis 9358
 Bagrada hilaris 10774
 Carpophilus hemipterus 8233
 Coleomegilla maculata 6542
 Dendroctonus ponderosae 8236
 Dendroctonus pseudotsugae 74
 Drosophila 68, 1083
 Drosophila busckii 5298
 Dysdercus koenigii 11368
 Gnathotrichus 11822
 Ips 8870
 Ips paraconfusus 131
 Ips pini 10955
 Ips typographus 2229, 2984, 3025,
 7064, 11839, 11845
 Orthotomicus caelatus 10010
 Oryzaephilus 9207
 Oryzaephilus surinamensis 67, 857,
 1162
 Pityogenes chalcographus 63
 Prostephanus truncatus 6715
 Rhyzopertha dominica 10278
 Scolytidae 10005, 11837, 11846, 11851
 Sitophilus 73, 4052
 Sitophilus granarius 1086
 Sitophilus oryzae 62
 Stiretrus anchorago 248
 stored products pests 4056
 Tribolium castaneum 1905, 11375
- Agistemus**
apples, orchards, Brazil 2733
control, *Panonychus ulmi* 2733
prey, tea, mites 5902
tea, plantations, India 5902
- Agistemus exsertus**
Citrus, orchards, Egypt 572
prey, *Citrus*, arthropod pests 572
- Aglais**, taxonomy 9155
- Aglais urticae**
biology, environmental factors 11365
British Isles 11365
ecology 6392
physiology, diapause 38-39
UK 6392
- Aglossa dimidiata**, stored products, China
10019
- Agonis junipera**, *Hadrobregmus magnus*,
New Zealand 1335
- Agonoscelis pubescens** (see *A. versicolor*)
- Agonoscelis versicolor**, *Vicia faba*, Sudan
8693
- Agonoxena argaula**
Oceania 3758
parasitoids 3758
- Agonum assimile**
Czechoslovakia 2373
ecology, habitats 2373
physiology, nervous system 2515
- Agonum dorsale**
cereals, fields, Denmark 4616
habitats, German Federal Republic
2597
prey, Aphididae 4616
- Agonum galvestonicum**
distribution, USA 3604
Typha latifolia 3604
- Agraphopus**
ectoparasites 4685
grasses, India 4685
- Agri-mek**, control, *Phyllocoptruta oleivora*
6839
- Agriades pyrenaicus ergane**
Androsace kosopoljanskii, USSR 3634
ecology 3634
morphology 3634
- Agricultural chemicals**, nontarget effects,
soil arthropods, reviews 4202
- Agricultural development**, diseases, confer-
ences 6239
- Agricultural entomology**
history, USA 7304
India, bibliographies 7249
- Agricultural research**
Belgium, reports 9136
directories 6223
Sudan, reports 2118
UK, reports 9135
- Agriculture**
ecology, books 12030
German Federal Republic, reports 8188
India, reports 7288-7291
Taiwan, reports 7295
- Agrilus auriventris**
control, microbial pesticides 1870
forest trees, China 1870
- Agrilus ruficollis**
biology, phenology 3761
blackberries, Arkansas 3761
control, insecticides 3761
monitoring, traps 3761
- Agrilus sexsignatus**
biology, phenology 1813
Eucalyptus deglupta, Philippines 1813
- Agrilus sulcicollis**
heavy metals, residues 4040
Quercus, Czechoslovakia 4040
- Agrilus viridis**
Betula, logs, Finland 5916
monitoring, traps 5916
- Agriolimax caruanae**, taxonomy, syno-
nyms, of *Deroceras panormitanum*
5541
- Agriopsis aurantaria**
biology 8832
Fagus sylvatica, Spain 8832
forest trees, USSR 4029
morphology 8832
parasitoids 4029
- Agriopsis marginaria**
attractants 10277
biology 8832
Fagus sylvatica, Spain 8832
Hungary 10277
morphology 8832
- Agriotes**
control, insecticides 5629
maize, Romania 5629
predators 4853
strawberries, Switzerland 5702
Vigna, India 4853
- Agriotes brevis**
biology 2350
Italy 2350
- Agriotes fuscicollis**
cold resistance 1059
- Agriotes fuscicollis cont.**
Japan 1059
- Agriotes lineatus**
biology 2350
Italy 2350
physiology, pheromones 2214
- Agriotes obscurus**
attractants 2214
physiology, pheromones 2214
- Agriotes sordidus**
biology 2350
Italy 2350
- Agriotes sputator**
attractants 923
monitoring, traps 923
soil, Poland 2298
USSR 923
- Agromyza cinerascens**
biology 2603
cereals, China 2603
control, insecticides 2603
- Agromyza frontella**
lucerne, Ontario 9642
parasitoids 9642
- Agromyza nigrella**
biology 5582
cereals, Italy 5582
control 5582
- Agromyza obtusa** (see *Melanagromyza*
 obtusa)
- Agromyza theae** (see *Tropicomyia theae*)
- Agromyzidae**
chrysanthemums, Israel 11783
control, biological control 9024
fire, effects 7670
grasslands, Utah 7670
India 12021
monitoring, traps 7670
parasitoids 212
- Agropyron desertorum**, Aphididae, Wash-
ington 10635
- Agropyron elongatum** (see *Elymus*
 elongatus)
- Agropyron intermedium** (see *Elymus*
 hispidus)
- Agropyron repens** (see *Elymus repens*)
- Agrostis alba**, *Chrysoteuchia topiaria*,
British Columbia 9658
- Agrostis capillaris**, *Rhopalosiphum padi*
5680
- Agrotis**
control, insecticides 1689
crops, USSR 916
monitoring 916
potatoes, India 1689
tobacco, Yugoslavia 8790
- Agrotis biconica**
biology 2865
control, cultural control 645
peas, India 645
potatoes, India 2865
- Agrotis bilitura** (see *Pseudoleucania*
 bilitura)
- Agrotis crassa**
biology 11603
food plants, USSR 11603
Morocco 1034
- Agrotis exclamatoris**
monitoring, traps 3139
Poland 4408
tobacco, Yugoslavia 8790
USSR 3139
- Agrotis flammatra** (see *Ochropleura*
 flammatra)
- Agrotis ipsilon**
biology 1144, 1604, 3644, 9889
behaviour 3375, 4644, 9564
migration 1391
phenology 1675
- Cicer arietinum**
Bangladesh 1675
India 2853
cold resistance 2183
control
 cultural control 10592
 insecticides 1637, 4911, 4942, 5162,
 5848, 7609, 8482, 9828
 microbial pesticides 3669, 5163,
 7862
cotton, China 7862

***Agrotis ipsilon* cont.**

- ecology
 - dispersal 8273
 - population dynamics 4381
 - Egypt 5447
 - food plants 8709
 - India 9828
 - Ontario 4168
 - Oregon 9634
 - Taiwan 1604
 - fruit trees, Korea Republic 3747
 - greenhouse crops, Iraq 5162-5163
 - growth regulators, effects 4291, 6213, 9034
 - insecticides
 - pathogenicity 8041
 - toxicity 10084
 - Iowa 3375, 9357
 - Iraq 5163
 - maize
 - Colorado 3669
 - Iowa 9564, 10592, 11544
 - Italy 7609
 - Spain 4644
 - USA 8482
 - monitoring, traps 3139, 3391, 3747, 4167, 8273, 9357, 9828, 9889
 - parasitoids 2122, 5447, 9634
 - pathogens 3669, 5107
 - Phaseolus vulgaris*, Brazil 1637
 - pheromones 8709
 - physiology, fat body 4291
 - potatoes, India 1689, 2865, 2867, 5848
 - predators 1675, 4168, 11445
 - radium, pollutants 4168
 - Romania 4381
 - sunflowers, Argentina 4911
 - Switzerland 4167
 - tobacco
 - Brazil 4942
 - Italy 9889
 - Yugoslavia 8790
 - USA 3391, 8273
 - USSR 3139
- Agrotis malefida***
- control, insecticides 4911
 - sunflowers, Argentina 4911
- Agrotis segetum***
- biology 3832, 4169, 9889
 - behaviour 80, 4644
 - environmental factors 10821
 - cadmium, effects 4169
 - carrots 10821
 - Chenopodium album* 5554
 - China 3126
 - control 3832
 - biological control 2929, 11754
 - insecticides 5848, 7609, 8790
 - microbial pesticides 741
 - cotton, USSR 741, 2904
 - crops, USSR 916
 - diets 5554
 - distribution, maps 6457
 - ecology, population dynamics 1166, 3906, 4381
 - German Democratic Republic 877
 - insecticides, effects 11179
 - lucerne, USSR 8540
 - maize
 - Italy 7609
 - Spain 4644
 - monitoring 916
 - traps 3139, 9889, 10749
 - natural enemies 2904, 11932
 - parasitoids 3126
 - pathogens 877, 4148, 6098, 7149, 10072, 11098
 - pheromones 89, 4417, 8231, 8241, 8540
 - physiology
 - nutrition 80
 - senses 89, 3318
 - plant extracts, growth regulators 987
 - potatoes
 - German Democratic Republic 3906
 - India 2865, 5848
 - rearing techniques 2401, 5554
 - Romania 4381
 - tobacco
 - Italy 9889
 - USSR 2929
 - Yugoslavia 8790

***Agrotis segetum* cont.**

- tomatoes, USSR 11754
 - USSR 1166, 3139
 - vegetables
 - Denmark 3832
 - German Democratic Republic 10749
- Agrotis spinifera* (see *A. biconica*)**
- Agrotis ypsilon* (see *A. ipsilon*)**
- Agrypnini, *Citrus*, Ethiopia 1582**
- Agrypnus variabilis***
- control, insecticides 8658
 - vegetables, New South Wales 8658
- Agrypon flaveolatum***
- Canada 9018
 - control, *Operophtera brumata* 9018
- Ahasverus advena***
- barley
 - commodities 11029
 - Minnesota 11880
 - monitoring, traps 11029
- AI3-10841 (see (4-Chlorophenyl)amino heptadecafluorooctyl sulfone)**
- AI3-63756 (see *N*-[[(4-Ethylphenyl) amino]carbonyl]-2,6-difluorobenzamide)**
- Ailanthus triphysa***
- forests, *Panthous bimaculatus*, India 10982
 - Lepidoptera, India 10982
- Aiolopus thalassinus***
- ecology, population dynamics 3469
 - Pakistan 2404, 3469
 - parasitoids 2404, 3469
 - physiology, endocrine system 2277
- Air**
- insecticides
 - effects 7218
 - residues 5635, 6208, 7920
- Air pollution**
- effects
 - arthropods 8879
 - insects 5930, 6225
 - Lepidoptera 7945
 - Petrova resinella* 5922-5923
 - Trichoplusia ni* 2820
 - insecticides, residues 5635
- Akatox (see Dicofol)**
- Alabama argillacea***
- cotton
 - Brazil 9868
 - Paraguay 8782
 - food plants, Brazil 8335
 - parasitoids 3496, 8335, 9868
- Alachlor**
- insecticides, interactions 9567
 - nontarget effects, *Neoplectana feltiae* 11940
 - toxicity, *Heterorhabditis bacteriophora* 8981
 - with insecticides, control, *Diabrotica* 4647
- Alanine, kairomones, *Ascogaster reticulata* 234**
- Alarm pheromones**
- pest control 3090
 - Aphididae 11312
 - Crematogaster* 6301
 - insects 1002
 - mites 71, 8945
 - Tyrophagus* 9779
- Albania, *Apis mellifera*, ectoparasites 259**
- Albizia*, *Platypus parallelus* 6456**
- Albizia falcataria***
- Leucopholis irrorata*, Philippines 11791
 - Pteroma plagiophleps*, India 8890
- Albizia lebbek***
- Bruchidius sparsemaculatus*, India 3980
 - Kerria indica*, Pakistan 11494
 - wood, Isoptera, damage 1794
- Albizia siris*, *Indarbela quadrinotata*, India 5010**
- Alcea rosea*, *Helicoverpa armigera*, damage 6997**
- Alcides morio*, *Cinnamomum zeylanicum*, India 1406**
- Aldehydes, attractants, *Oryzaephilus* 8153**
- Alder (see *Alnus*)**
- Aldicarb (2-methyl-2-(methylthio)propanal *O*-[(methylamino)carbonyl]oxime)**

Aldicarb cont.

- control
 - Aloephagus myersi* 8800
 - Aphididae 699-700, 9833
 - aubergines, insect pests 7840, 11757-11758, 11762
 - Bagrada hilaris* 5795
 - Bemisia tabaci* 1648
 - Brachycorynella asparagi* 1608
 - Coccoidea 5766
 - Cosmopolites sordidus* 3823, 4796
 - cotton
 - insect pests 4932-4933, 5887, 10861
 - Thysanoptera 2919
 - Epitrix hirtipennis* 9890
 - fungi 11202
 - groundnuts, insect pests 3888
 - jute, arthropod pests 2928
 - Lipaphis erysimi* 11699
 - Myzus persicae* 5838
 - Noctuidae 5813
 - Oscinella frit* 6718
 - Phyllocnistis citrella* 7756
 - potatoes, insect pests 5848
 - Tetranychus urticae* 6995
 - Thripidae 3940
 - Viteus vitifoliae* 10682
 - degradation, soil 11222
 - detection 3442, 9089
 - effects
 - grasslands, arthropods 8535
 - Noctuidae 10802
 - pastures 1441
 - potatoes 1681
 - Rhizobium meliloti* 5207
 - soil, microorganisms 2041
 - Tetranychus urticae* 4184
 - Vigna radiata* 4852
 - mixtures
 - control, *Selenaspis articulatus* 9715
 - effects, potatoes 1681
 - nontarget effects
 - groundnuts, nodulation 8718
 - predatory insects 9715
 - nontarget effects
 - aquatic organisms 2039
 - Braconidae 10802
 - Jalysus wickhami* 4946
 - man 8103
 - microorganisms 2063
 - predatory arthropods 680
 - soil, microorganisms 4932
 - soil arthropods 1731
 - penetration, *Rhizoglyphus echinopus* 4895
 - persistence, environment 2063
 - residues
 - aubergines 11762
 - groundwater 10144-10145, 10154
 - hops 9512
 - mangoes 5766
 - plants 3442
 - soil 5213
 - vegetables 586
 - water 8146
 - toxicity
 - Heterorhabditis bacteriophora* 8981
 - Myzus* 6920
 - Somaticus* 5627
 - Somaticus geniculatus* 6716
 - Tetranychus urticae* 1697
 - usage, USA 10144
- Aldicarb sulfone (see Aldoxycarb)**
- Aldicarb sulfoxide (see 2-Methyl-2-(methylsulfonyl)propanal *O*-[(methylamino)carbonyl]oxime)**
- Aldoxycarb (2-methyl-2-(methylsulfonyl)propanal *O*-[(methylamino)carbonyl]oxime)**
- control, *Brevipalpus phoenicis* 6838
 - residues, groundwater 10154
- Aldrin ((1 α ,4 α ,4 α ,5 α ,8 α ,8 α)-1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-1,4:5,8-dimethanonaphthalene)**
- analysis 6483
 - control
 - Agrotis* 4911
 - Isoptera 2613

Aldrin *cont.*
control *cont.*
 Odontotermes obesus 10665, 11734
 Ophiomyia phaseoli 646
 Oryctes rhinoceros 497
 Pempherulus affinis 4920
 rice, insect pests 3696
 Termitidae 8725
effects
 fishes 5206
 legumes 1634
 Polistes olivaceus 6159
 rats 3192, 8093
extraction 3445
metabolism
 Epilachna varivestis 2814
 Plutella xylostella 11169
mixtures, control, *Psammotermes hybostoma* 3068
nontarget effects
 Apis mellifera 11199
 aubergines 5864
 evaluation 7302
 reviews 7302
 rodents 8101
persistence, soil 4624
pollutants, marine areas 4213
residues
 cereal grains 10038
 fishes 6137, 10124
 medicinal plants, commodities 4053
 milk 7302
 nontarget organisms 8092
 reservoirs 8141
 rice 3696
 soil 3445, 11233
 water 980, 5215
resistance, *Diabrotica virgifera* 11161
toxicity
 Acrida exaltata 186
 Cornitermes cumulans 4624
 Leucopholis coneophora 5697
 Oryctes rhinoceros 497
 uptake, cyanobacteria 2047
Aleiodes buoculus
 hosts, Geometridae 3921
 jojoba, habitats, USA 3921
 taxonomy, new species 3921
Aleochara bilineata
 hosts, *Delia antitiqua* 1292
 pesticides, effects 1292
Aleochara bipustulata
 hosts, *Delia coarctata* 387, 10568
 wheat, fields, German Democratic Republic 387, 10568
Aleochara laevigata
 hosts, *Delia coarctata* 387, 10568
 wheat, fields, German Democratic Republic 387, 10568
Aleocharinae
 Kalimantan 9450
 North America 10243
 taxonomy 9450, 10243
Alleppe pine (see *Pinus halepensis*)
Aleurocanthus
 parasitoids 9147
 Somalia 9147
Aleurocanthus indicus
 Borreria hispida, India 10511
 taxonomy, new species 10511
Aleurocanthus spiniferus
 ecology, distribution 11665
 mandarins, Japan 11665
 natural enemies 11665
Aleurocanthus woglumi
 biology 2773, 3808, 4786
 Citrus 3808
 India 4782
 Pakistan 2759
 control 4789
 insecticides 8648
 insecticides, toxicity 4781
 mandarins 2773
 India 4786, 8648
 natural enemies 2759, 4782
 oranges, India 4789
 plant extracts, toxicity 1759
Aleurochiton
 Czechoslovakia 4272
 taxonomy 4272
Aleurochiton acerinus, distribution, Bulgaria 2367
Aleurochiton aceris, distribution, Bulgaria 2367
Aleurochiton pseudoplatani, distribution, Romania 2367
Aleurocybotus indicus
 distribution, West Africa 442
 parasitoids 442
 rice 442
Aleurodicus dispersus
 distribution
 maps 6454
 Papua New Guinea 3826
 Florida 11431
 fruits 3826, 6454
 Hawaii 1971
 natural enemies 1971
 parasitoids 11431
Aleuroglyphus, taxonomy 4048
Aleuroglyphus ovatus
 cereal grains, Brazil 859
 house dust, Egypt 4048
 physiology, secretions 6299
Aleuroglyphus zaheri
 house dust, Egypt 4048
 taxonomy, new species 4048
Aleulobus
 Ehretia pitularis, Kenya 9152
 parasitoids 3498, 9152
Aleulobus barodensis
 control, insecticides 4611
 sugarcane
 India 5586
 Pakistan 4611
Aleulobus niloticus, parasitoids 3498
Aleulobus olivinus, food plants, Europe 9912
Aleuroplatus cadabae
 Ethiopia 9147
 parasitoids 9147
Aleurothrixus floccosus
 biology, behaviour 11667
 Citrus, Italy 2760, 3816
 control, biological control 3129
 Hawaii 1971
 honeydew 11452
 Italy 3129
 lemons 11667
 morphology, mouthparts 3252
 natural enemies 1971
 parasitoids 2760, 3816
Aleurotrachelus jelinekii (see *Aleurotuba jelinekii*)
Aleurotrachelus socialis
 cassava, Colombia 711, 11747
 control, cultural control 711, 11747
 ecology, population dynamics 11747
 natural enemies 711
Aleurotuba jelinekii
 biology, phenology 2760
 ecology, population dynamics 7035
 Italy 2760
 parasitoids 2760
 Viburnum tinus, UK 7035
Aleurotuberculatus auctuae
 ecology, distribution 11665
 mandarins, Japan 11665
 natural enemies 11665
Aleurotulus anthuricola
 Anthurium, America 4964
 taxonomy, new species 4964
Aleurotulus maculata, taxonomy, to *Dialeurolonga* 10717
Aleyrodes
 avocados, Guadeloupe 9147
 parasitoids 9147
Aleyrodes prolella
 checklists, Bermuda 153
 distribution, Bulgaria 2367
 food plants 153
 kale 4514
 parasitoids 4514
Aleyrodes spiraeoides, morphology, mouthparts 3252
Aleyrodidae
 aubergines, India 11758
 biology 3808
 books 6231
 cages 3808
 checklists, Bermuda 153
Aleyrodidae *cont.*
 Citrus 3808
 control, insecticides 11758
 cotton, Israel 743
 crops, conferences 997
 distribution, China 5389
 food plants 153, 2367
 India 9154
 Pakistan 9147
 Palaeartic Region 2367
 parasitoids 3498-3499, 9147
 Phaseolus vulgaris, tropics 8696
 plant pathogens 8696
 transmission 11062, 11084, 11902
 predators 662
 taxonomy 9154
 vegetables, Iraq 4529
Aleyrodinea, physiology, enzymes 1060
Alfalfa (see *Lucerne*)
Alfalfa mosaic virus, vectors, *Acyrtosiphon pisum* 5125
Algae
 insecticides
 effects 11187, 11401
 residues 8133
 toxicity 12003
 soil, carbofuran, effects 6726
Algeria
 Danaus chrysippus 1180
 Helix aspersa 5533
 Thysanoptera 4394
Alindria grandis, *Citrus*, orchards, Ethiopia 1582
Alissonotum impressicollae
 control, insecticides 6696
 sugarcane, China 6696
Alkaloids
 effects, Heliconiini 1097
 metabolism, *Melanoplus sanguinipes* 5286
 repellents, *Lymantria dispar* 7965
 toxicity, *Helicoverpa* 11180
Alkanna tinctoria (see *A. tuberculata*)
Alkanna tuberculata, *Ethmia bipunctella*, damage 8439
6-Alkylthio-2-pyridyl alkanesulfonates, toxicity, arthropods 941
2-Alkylthio-4-thiazolyl methanesulfonates
 synthesis 10110
 toxicity, arthropod pests 10110
All-(Z)-alka-6,9-diene, pheromones, Lepidoptera 4309
All-(Z)-alka-3,6,9-triene, pheromones, Lepidoptera 4309
Allantonema, hosts, Scolytidae 8848
Allantonematidae, hosts, Scolytidae 7055
Allelochemicals
 effects, *Lymantria dispar* 7024
 mixtures, toxicity, Noctuidae 11158
Allethrin (2-methyl-4-oxo-3-(2-propenyl)-2-cyclopenten-1-yl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropane-carboxylate)
 mutagenicity, *Salmonella typhimurium* 977
 nontarget effects, reports 9137
 [1*R*-[1 α (*S*)*,3 β]]-, nontarget effects 9137
 (1*R*)-*cis-trans*-, nontarget effects 9137
d-Allethrin (see *Allethrin*, (1*R*)-*cis-trans*)
Alliaceae, extracts, effects, *Bruchidius atrolineatus* 7111
Alliaria petiolata
 Ceutorhynchus constrictus 7774
 Pieris napi, Sweden 7564
Alligatorweed (see *Alternanthera philoxeroides*)
Allium
 Acrolepiopsis assectella 10748
 extracts, effects, *Acrolepiopsis assectella* 10840
Allium ampeloprasum, Aphididae, Japan 9909
Allium ascalonicum (see *Shallots*)
Allium canadense, *Romalea guttata* 718
Allium cepa (see *Onions*)
Allium fistulosum, *Spodoptera exigua*, Japan 9843
Allium porrum (see *Leeks*)
Allium sativum (see *Garlic*)

- Allium tuberosum*, *Bradysia odoriphaga*, China 1706
- Allium ursinum*, *Acrolepiopsis betulella*, UK 9735
- Allium vineale*, extracts, molluscicidal properties 9048
- Allocontarinia sorghicola* (see *Contarinia sorghicola*)
- Allodontermes*, food plants, Kenya 5513
- Allograpta*
biology, phenology 3656
fungicides, effects 3656
wheat, fields, Brazil 3656
- Allograpta obliqua*
pecans, orchards, Georgia 6802
predators 6802
- Allolobophora caliginosa* (see *Aporrectodea caliginosa*)
- Allomerus demararae*
biology, behaviour 8859
forest trees, Peru 8859
- Allomonas*, insects 1002
- Allonematidae*, hosts, Sphaerididae 4149
- Allonemobius fasciatus*
genetics, population genetics 3359
North America 3359
- Allorhogas*
biology 835
parasitoids 835
Pithecellobium tortum, Brazil 835
- Allorhogas pyralophagus*
biology 5561, 8448
environmental factors 5466
control
Chilo partellus 8520
Chilo sacchariphagus 364
Eldana saccharina 1422
Pyralidae 9528
- hosts
Chilo partellus 5466
Diatraea saccharalis 8448
Lepidoptera 6561
- insecticides, toxicity 9528
sorghum, fields, India 8520
storage 5466
sugarcane
plantations
Brazil 8448
India 9528
Mauritius 364
South Africa 1422
- Allosamidin*, effects, *Bombyx mori* 8149
- Allothrombium pulvinum*
biology 1342
China 1342
hosts, Aphididae 1342
prey, arthropods 1342
- Allotropia*
hosts, *Oracella acuta* 11801
Pinus taeda, plantations, Georgia 11801
taxonomy, synonyms, *Nasdia* 5491
- Allotropia prosper*, taxonomy, from *Nasdia* 5491
- Alloxysta*
hosts, *Diaeretiella rapae* 5789
kale, fields, USA 5789
- Alloxysta brassicae* (see *A. victrix*)
- Alloxysta pleuralis*
ecology, population dynamics 2484, 5448
fields, India 9740
hosts
Braconidae 9740
Trioxys indicus 2484, 5448
- Alloxysta victrix*
Brussels sprouts, fields, UK 5484
insecticides, effects 5484
- Alloxystinae*, hosts, *Uroleucon*, parasitoids 1392
- Allyl isothiocyanate*, attractants, *Lipaphis erysimi* 7237
- Allyl propionate*, attractants, *Glischrochilus quadrisignatus* 5725
- Allylbenzenes*, synthesis 8084
- Almonds** (*Prunus amygdalus*)
Amygdalis transitella, California 4724, 9669-9670
arthropod pests, Italy 11637
commodities
Corcyra cephalonica 7995
- Almonds cont.**
commodities cont.
Pyralidae, damage 5081
Drosicha dalbergiae, India 2718, 8578, 9671
insect pests, California 523
orchards, insecticides, nontarget effects 10148
pest control, Australia 9132
Saturnia pyri 1825
Tetranychus pacificus 9791
California 2719, 7720
- Alnus**
Glyphina schrankiana, Europe 5000
Heterarthrus vagans, Italy 3994
litter, Coleoptera, Washington 9960
Pterocallis alni, UK 6806
Rhynchaenus testaceus, UK 3031
Stigmella, Denmark 1830
Tenthredinidae, France 4031
windbreaks, *Blepharidopterus angulatus*, UK 6806
- Alnus cordata*, insect pests, Italy 11802
- Alnus formosana*, *Actias selene*, Taiwan 4002
- Alnus glutinosa*
Eriophyes laevis, galls 8856
Parna tenella, Poland 4038
- Alnus japonica*, *Graptosaltria nigrofusca*, Japan 9948
- Alnus nitida*, *Cryphalus fulmineus* 804
- Alocasia macrorrhiza*, *Aplosomyx ancora*, Vietnam 5076
- Alocypha bimaculata*
distribution, maps 6457
sesame, Africa 6457
- Aloe*, *Aloephagus myersi*, damage 8800
- Aloephagus myersi*
biology 8800
control, insecticides 8800
distribution, Italy 8800
morphology 8800
ornamental plants 8800
- Alona*, insect growth regulators, effects 2755
- Alopecosa aculeata*, morphology 3541
- Alopecosa helluo*
New York 9406
predators 9406
- Alopecurus pratensis*, *Chrysoteuchia topiaria*, British Columbia 9658
- Alpenus investigatorum*, taxonomy, from *Diacrisia* 2132
- Alpenus schraderei rattayi*, taxonomy, from *Diacrisia* 2132
- Alphamethrin** (see Alpha-cypermethrin)
- Alphitobius diaperinus*
man, allergies 7488
poultry droppings 10248
poultry housing, Virginia 7467
prey, stored products pests 7986
stored products 7986
Uropoda, phoresy 10248
- Alphitobius laevigatus*
distribution, New Zealand 4384
genetics, karyotypes 5344
physiology, enzymes 47
- Alphitobius piceus* (see *A. laevigatus*)
- Alpine fir** (see *Abies lasiocarpa*)
- Alsomyia nidicola*
distribution, UK 5954
ecology 5954
hosts, *Euproctis chrysorrhoea* 5954
taxonomy 5954
- Alsophila pometaria*
apples, Ontario 8586
ecology, population dynamics 8586
- Alsophila quadripunctata*, pheromones 4309
- Alsystin** (see Triflumuron)
- Alternanthera philoxeroides*, *Amylothrips andersoni*, Florida 4579
- Alternaria*, *Niesthrea louisianica*, interactions 6631
- Alternaria alternata*
Anthonomus eugenii, interactions 1718
hosts, *Pogonomyrmex rugosus* 11946
insecticides, effects 11194
- Alternaria brassicae*, insecticides, effects 11203
- Alternaria humicola*, insecticides, effects 11195
- Alternaria tenuis* (see *A. alternata*)
- Althaeus*, taxonomy 3607
- Althaeus folkertsi*
food plants 3607
morphology 3607
taxonomy, new species 3607
- Althaeus hibisci*, food plants 3607
- Altica aenescens*, *Betula*, France 2348
- Altica cyanea*
biology 328
Melastoma malabathricum, Malaysia 328
physiology, digestive system 4317
- Altica foliacea*
ectoparasites 10476
Oenothera, Florida 10476
- Altica quercetorum*, *Quercus*, Hungary 11830
- Altosid** (see Methoprene)
- Altozar** (see Hydroprene)
- Aluminium**
chelates, control, *Deroceras reticulatum* 954
pollutants
forests 5054
Sphingidae 1835
salts, toxicity, *Deroceras reticulatum* 8405
- Aluminium acetylacetonate**, toxicity, *Deroceras reticulatum* 6617
- Aluminium foil**, repellents, insects 8676
- Aluminium phosphide** (see Phosphine)
- Alydidae**, cotton, Africa 5884
- Alydus**
morphology 8202
taxonomy 8202
- Alydus group**, taxonomy 8202
- Alysia manducator*
biology, environmental factors 2517
hosts, *Calliphora vicina* 2517
- Alysiinae**
hosts, *Hydrellia griseola* 7645
rice, fields, Queensland 7645
- Amanita*, *Pallodes* 600
- Amanita rubescens*, *Oxyporus guerreroanus*, Mexico 10755
- α -Amanitin**, effects, *Galleria mellonella* 116
- Amara**
predators 374
Switzerland 374
- Amara farcta**
fields, Montana 1525
insecticides, effects 1525
monitoring, traps 1525
prey, legumes, insect pests 1525
- Amara lunicollis*, habitats, German Federal Republic 2597
- Amara similata*
ecology 1554
orchards, USSR 1554
- Amaranthus dubius*, *Melanagromyza amaranthi*, Venezuela 6648
- Amaranthus lividus*, *Hymenia recurvalis*, Japan 9747
- Amaranthus palmeri*, *Aufeius impressicollis*, South Carolina 2561
- Amaranthus retroflexus*
arthropods, North Carolina 2601
habitats, parasitoids, Quebec 6652
Lygus lineolaris, Quebec 6652
Papaipema nebris 9549
- Amaranthus spinosus*, *Spodoptera*, Nicaragua 4848
- Amaranthus viridis*
Agrotis ipsilon, India 9828
Helicoverpa armigera 9920
India 9820
- Amarini**, Spain 1185
- Amathes c-nigrum* (see *Xestia c-nigrum*)
- Amatidae**
Brazil 6525
predators 6525
- Amblydromella rhenanoides*
coniferous forests, France 2958
prey, Tenuipalpidae 2958
- Amblyseius**
Central America 10235
coconuts, plantations, India 11619

- Amblyseius cont.**
control, *Frankliniella occidentalis* 10752
Europe 10235
greenhouses, France 10752
orchards, Austria 2741
prey, *Raoiella indica* 11619
Taiwan 2495
taxonomy 2495, 10235
- Amblyseius aberrans** (see *Kampimodromus aberrans*)
- Amblyseius addoensis**
biology, phenology 515
distribution, South Africa 1191
prey, *Thrips tabaci* 515, 4721
vineyards, South Africa 515, 4721
- Amblyseius aegyptocitri**
Citrus, habitats, Egypt 4270
taxonomy, new species 4270
- Amblyseius andersoni**
apples, orchards, Italy 2734, 5735
biology 5735
behaviour 2735
Canada 11284
control
 Panonychus ulmi 5735
 Tetranychidae 4723
ecology
 habitats 11432
 population dynamics 2734
food 2735
fungicides, effects 520
Netherlands 11284
Ontario 11432
orchards, Italy 2735
pesticides, effects 5735
prey, *Panonychus ulmi* 520
taxonomy
 synonyms
 Amblyseius britannicus 11284
 Amblyseius potentillae 11284
vineyards, Italy 4723
- Amblyseius anonymus** (see *Neoseiulus anonymus*)
- Amblyseius barkeri**
biology 2494
control
 Frankliniella occidentalis 3864
 greenhouse crops, arthropod pests 11113
 Thrips tabaci 622, 5798
Denmark 3864
Finland 5798
food 2494
greenhouses
 Denmark 622
 German Democratic Republic 11113
 Norway 7157
prey
 arthropods 2494
 Frankliniella occidentalis 7157
- Amblyseius benjamini**, acaricides, effects 8657
- Amblyseius bibens**, prey, *Tetranychus cinabarinus* 1742
- Amblyseius britannicus**, taxonomy, synonyms, of *Amblyseius andersoni* 11284
- Amblyseius californicus** (see *Neoseiulus californicus*)
- Amblyseius cornutus** (see *A. fockeui*)
- Amblyseius cracentis**
Taiwan 2495
taxonomy 2495
- Amblyseius cucumeris** (see *Neoseiulus cucumeris*)
biology, diapause 4515
- Amblyseius degenerans**
biology 8345
body weight, models 8345
ecology, population dynamics 10441
prey, *Tetranychus pacificus* 8345, 10441
- Amblyseius deleoni**
Korea Republic 8352
taxonomy 8352
- Amblyseius eharai**
biology 9424
prey, *Panonychus citri* 9424
- Amblyseius fallacis** (see *Neoseiulus fallacis*)
- Amblyseius finlandicus** (see *Euseius finlandicus*)
- Amblyseius gloreus**, taxonomy, to *Paraamblyseius* 1040
- Amblyseius gossipi** (see *Euseius gossipi*)
- Amblyseius leonardi**
taxonomy, new species 5763
tea, Peru 5763
- Amblyseius limonicus**
attractants 11745
cassava, fields, Colombia 9841
control, *Mononychellus tanajoa*, evaluation 11745
prey, Tetranychidae 9841
- Amblyseius longispinosus** (see *Neoseiulus longispinosus*)
- Amblyseius lynnae**
Capsicum, Peru 5763
taxonomy, new species 5763
- Amblyseius mckenziei**
control
 Frankliniella occidentalis 3836
 greenhouse crops, arthropod pests 5862
 Thrips tabaci 11706
 Thysanoptera 7786
ecology, population dynamics 3920
greenhouses 5862
 Czechoslovakia 7786
 German Federal Republic 3836
 Netherlands 3920
 USSR 11706
pesticides, toxicity 6577
prey
 Acarus farris 6565
 Tetranychus cinnabarinus 1742
 Thysanoptera 3920
 rearing techniques 6565
- Amblyseius meridionalis**
ecology, habitats 11432
Ontario 11432
- Amblyseius msabahaensis**
food plants, Kenya 1833
taxonomy, new species 1833
- Amblyseius multidentatus**
Taiwan 2495
taxonomy 2495
- Amblyseius neolentiginosus**
prey, *Tetranychus urticae* 8630
stone fruits, orchards, Queensland 8630
- Amblyseius nicholsi**
acaricides
 effects 5905
 resistance 5905
Citrus, orchards, China 5905
control, *Panonychus citri* 5905
- Amblyseius obtusus**
morphology 2125
taxonomy 2125
- Amblyseius okanagensis**
ecology, habitats 11432
Ontario 11432
- Amblyseius orientalis**
Korea Republic 8352
taxonomy 8352
- Amblyseius peregrinus**
limes, orchards, Florida 6841
prey, *Polyphagotarsonemus latus* 6841
- Amblyseius potentillae**
attractants 7794
biology
 diapause 4515
 food preferences 8344
 carotenoids, effects 4515
 food 4515
 genetics, genes, insecticide resistance 10437
 insecticides, metabolism 10437
 physiology
 diapause 1317
 enzymes 10437
prey
 Acari 8344
 Tetranychus urticae 7794
taxonomy, synonyms, of *Amblyseius andersoni* 11284
- Amblyseius pseudolongispinosus**
apples, orchards, China 8593
biology 8367
cover crops, effects 8593
ecology, population dynamics 8593
- Amblyseius quichua**
Baccharis, Peru 5763
taxonomy, new species 5763
- Amblyseius reductus**
control, *Tetranychus urticae* 502
strawberries, fields, USSR 502
- Amblyseius similis**
control, Tetranychidae 5694
orchards, USSR 5694
- Amblyseius swirskii**
biology, behaviour 224
Citrus, orchards, Egypt 572
food 224
prey
 arthropod pests 224
 Citrus, arthropod pests 572
- Amblyseius tenuiscutus**
bananas, Peru 5763
taxonomy, new species 5763
- Amblyseius tuvinensis**
habitats, USSR 5500
taxonomy, new species 5500
- Amblyseius victoriensis**
biology
 development 220
 overwintering 8631
food 220
orchards, New South Wales 8631
peaches, orchards, New South Wales 220, 8632
pesticides, effects 8632
prey, Acari 220, 8631
- Ambrosia**
biological control 6659
 books 10194
 USSR 10194
- Ambrosia artemisiifolia**
arthropods, North Carolina 2601
biological control 6635
 books 10194
biological control agents, evaluation 4578
China 4578, 4583
control, biological control 4583
Ophraella, Texas 11509
USSR 10194
Yugoslavia 6635
- Ambrosia maritima**, extracts, molluscicidal properties 9047
- Ambrosia trifida**, *Papaipema nebris* 9549
- Ambrosiella**, *Scolytotrupes shogun*, interactions 3072
- Ambrosiella xylebori**, *Xylosandrus compactus*, interactions 2934
- Ambrosiinae**, insects, California 6655
- Ambrosiodmus lecontei** (see *Xyleborus lecontei*)
- Ambush** (see *Permethrin*)
- Amegilla sapiens**
biology, behaviour 8436
Stachytarpheta mutabilis, Papua New Guinea 8436
- Ameiurus melas**, prey, *Anabrus simplex* 7500
- Amelanchier alnifolia**, insect pests, damage 7721
- Amenity and recreation areas**, pests, Singapore 10887
- America**
 Arge 5975
 arthropod pests, maps 6454, 6458-6459
 Chalcidoidea 4511
 Diatraea saccharalis 6460
 Euphoria 1039
 insects, identification 1000
 Leptothrips 3970
 Melaphis rhois 10522
 Microcharops 3496
 Platygastridae 5491
 Platypus parallelus 6456
 Rhagoletis pomonella 8597
 sugarcane, insect pests 10549
- American jointvetch** (see *Aeschynomene americana*)
- American Samoa**, Cicadoidea 10239
- Ameroseius**
Tenebrionidae, phoresy 1171
USSR 1171
- Ametastegia**
biology 7589
cereals, Poland 7589

- Amides**, synergism 10084
2,4-D-Amine, nontarget effects, predatory arthropods 6526
- Amino acids**
 effects
 Lepidoptera, cell lines 6490
 Oxyacarus hyalinipennis 11520
 synergism 10084
- Aminocarb** (4-(dimethylamino)-3-methylphenyl methylcarbamate)
 application 3038
 control
 Choristoneura fumiferana 7914
 Lambdina fiscellaria 7915
 Zeiraphera canadensis 8853
 deposition, forest trees 10907
 effects, small mammals 817
 formulations, sprays 10907, 11152
 residues
 Abies balsamea 8893
 detection 7193
 fishes 7193
- 4"-Amino-4"-deoxy avermectins**, toxicity, Lepidoptera 7183
- Aminopielik D**, nontarget effects, Aphididae 4628
- Amitermes laurensis**
 Formicidae, interactions 11476
 Queensland 11476
- Amitraz** (*N'*-(2,4-dimethylphenyl)-*N*-[(2,4-dimethylphenyl)imino]methyl)-*N*-methylmethanimidamide)
 control
 Cacopsylla pyricola 2748
 Noctuidae 6981
 Phyllocoptruta oleivora 1586
 Varroa 6528
 Varroa jacobsoni 1240, 1245, 1249, 1253, 1255, 1327, 11474
 effects
 cotton 11775
 rats 5196, 10120
 Tetranychus urticae 4184
 metabolism, Noctuidae 5188
 mixtures, control, *Cacopsylla pyri* 8621
 residues, honey 2017
 resistance, *Cacopsylla pyricola* 1565
 synergism 3155
 toxicity
 Apis mellifera 1249
 Varroa jacobsoni 10474
- Amitrole**, effects, *Tetranychus urticae* 9084
- Amitus aleurodinis**
 cassava, fields, Colombia 711
 hosts, Aleyrodidae 711
- Ammi visnaga**, arthropods, California 6642
- Ammonium carbonate**
 attractants
 Rhagoletis completa 8577
 Rhagoletis pomonella 8626
- Ammonium nitrate**
 mixtures
 attractants, *Melanagromyza obtusa* 5827
 toxicity, *Tribolium confusum* 9066
 toxicity, *Tribolium confusum* 9066
- Ammophila**
 biology, behaviour 10466
 prey, Lepidoptera 10466
 South Africa 10466
- Ammophila arenaria**, *Homoporus febriculosus*, UK 9620
- Ammophila azteca**
 biology, behaviour 8355
Formica sibylla, interactions 8355
 Nevada 8355
- Ammophila dysmica**
 biology, behaviour 8355
 California 2496
Formica sibylla, interactions 8355
 Nevada 8355
 parasitoids 2496
- Ammophila lampei**
 distribution, Chile 1340
 taxonomy 1340
- Ammophila marshi**
 biology, behaviour 8355
Formica sibylla, interactions 8355
 Nevada 8355
- Amomum subulatum**, oils, effects, *Sitophilus oryzae* 5097
- Amomum villosum**
Epitimerus amoni, China 5947
Metaplatyphytoptus amoni, China 5948
 taxonomy, new species 5947
- Amorbia cuneana**, pheromones 4310
- Amorphocerus**
Encephalartos, pollination 3030
 South Africa 3030
- Ampelopsis brevipedunculata**, *Asphondylia baka*, Japan 2697
- Amphibia**
 insecticides, effects 4247, 7194, 12000
 pathogens 8980
- Amphicerus bicaudatus**
 grapes, Texas 8566
 morphology 8566
 sex determination 8566
- Amphicerus cornutus**
 jojoba, USA 3921
 parasitoids 3921
- Amphicomma**
 Israel 6993
 plants, pollination 6993
- Amphipoda**, insecticides, effects 6199
- Amphipyra livida**
 fruit trees, Korea Republic 3747
 monitoring, traps 3747
- Amphipyra pyramidoides**
 food plants, Oregon 9634
 parasitoids 9634
- Amphoromorpha**, arthropods, interactions 8999
- Amphorophora idaei**
 biology, behaviour 9656
 plant viruses, transmission 2706
 raspberries
 German Federal Republic 2706, 9656
 USSR 10675
 small fruits, Switzerland 5701
- Amphorophora rubi**
 physiology, enzymes 9655
 taxonomy 9655
- Amplicephalus dubius**
 host plants, Argentina 6764
 monitoring, traps 6764
- Amplicephalus isis**
 monitoring, traps 6890
 soyabeans, Argentina 6890
- Amplicephalus obsoletus**
 host plants, Argentina 6764
 monitoring, traps 6764
- Amrasca biguttula**
 control, insecticides 6884, 10863
 cotton, India 10863
Vigna radiata, India 6884
- Amrasca biguttula biguttula** (see also *A. devastans*)
 aubergines, India 11762
 control, insecticides 601, 746, 2793, 8669, 9754, 9756, 11691, 11762
 cotton, India 746
 okras, India 601, 2793, 8669, 9754, 9756, 11691
- Amrasca devastans**
 aubergines, India 2887, 3855, 6947, 7842, 11757-11759
 biology
 environmental factors 10864
 phenology 5779
 control, insecticides 2887, 3840, 3855, 4919, 4933, 5891, 6947, 7842, 11757-11759, 11771, 11774
 cotton
 India 2393, 4919, 4933, 5891, 11771, 11774
 Pakistan 10864
 resistance 10866
 Malvaceae, varietal susceptibility 7875
 okras
 India 3840
 Pakistan 5779
 sampling 2393
- Amrasca kerri** (see *Empoasca kerri*)
- Amrasca splendens**
 biology, phenology 7760
 distribution, China 5388
 mangoes, India 7760
- Amritodus atkinsoni**
 biology 9733
- Amritodus atkinsoni cont.**
 control, insecticides 5769
 mangoes 9733
 Pakistan 5769
 natural enemies 9733
- Amsacta albistriga**
 control, insecticides 2846
 food plants, India 2846
 natural enemies 2846
- Amsacta flavicosta**, taxonomy, to *Paralpenus* 2132
- Amsacta moorei**
 control, insecticides 11718
Vigna unguiculata, India 11718
- Amyeloidis transitella**
 almonds, California 523, 4724, 9669-9670
 biology 7994
 behaviour 1161, 4724, 10340
 development 6800
 classification, larvae 4273
 control 7994
 cultural control 523
 monitoring
 heat sums 9670
 traps 4724, 9669
 natural enemies 7994
 pheromones 1161
 radiation, effects 5081
 stored products, damage 5081
 walnuts, commodities, Italy 7994
- Amygdalin**, antifeedants, *Locusta migratoria* 9067
- Amylase**, *Bacillus thuringiensis*, production 6081
- Amylostereum**, *Sirex*, interactions 6264
- Amylostereum areolatum**, *Sirex noctilio*, symbiosis 10937
- Amylostereum chailletii**, vectors, *Urococcus gigas* 5065
- Amyna octo**
 biology 2832
 soyabeans, India 2832
- Amynothrips andersoni**
Alternanthera philoxeroides, Florida 4579
 biology 4579
 monitoring, traps 4579
 morphology 4579
- Anabaena**, insecticides, uptake 2047
- Anabas testudineus**, insecticides, effects 8094
- Anabrus simplex**
 food, rats 7468
 predators 7500
 USA 7500
- Anacardiaceae**, *Teleiopsis* 2128
- Anacardium**, *Neoclytus englemanni*, Panama 8858
- Anacardium occidentale** (see Cashews)
- Anacolosia densiflora**, insect pests, India 10979
- Anacranga**
 parasitoids 2444
Ricinus communis, Brazil 2444
- Anacridium rubrispinum**
 control, insecticides 5052
 pathogens 5052
 trees, India 5052
- Anadiplosis**
 Brazil 1880
Machaerium aculeatum, galls 1880
 parasitoids 1880
- Anaemerus fuscus**
 control 1671
 groundnuts, Senegal 1671
- Anagasta kuehniella** (see *Ephestia kuehniella*)
- Anagrus**
 ecology, population dynamics 11710
 hosts
 Empoasca 11710
 Hemiptera 8514
 rice, fields, India 8514
 squashes, fields, California 11710
- Anagrus delicatus**
 ecology 6538
 Florida 6538
 hosts, *Prokelisia marginata* 6538
- Anagrus epus**
 biology, behaviour 5712

Anagrus epos cont.
 biotypes, identification 5712
 hosts, *Erythroneura variabilis* 5712
 North America 5712

Anagrus mutans
 biology, behaviour 6582
 hosts, Homoptera 6582

Anagrus nilaparvatae
 biology 4513
 China 3697, 4513
 ecology, population dynamics 3697
 hosts
 Delphacidae 4513
 Nilaparvata lugens 3697

Anagrus optabilis, hosts, *Nilaparvata lugens* 4661

Anagrus silwoodensis
 biology, behaviour 6582
 hosts, Homoptera 6582

Anagyrietta brevicornis, taxonomy, from *Leptanusia* 2459

Anagyris
 cassava, fields, Congo 5852
 Congo 10837
 control, *Phenacoccus manihoti* 5852
 natural enemies 10837

Anagyris dactylopii
 biology 239
 development 6790
 hosts, *Macronellicoccus hirsutus* 239, 6790
 vineyards, India 6790

Anagyris mangicola
 control, *Rastrococcus invadens*, evaluation 10658
 hosts, *Rastrococcus* 10658
 India 10658
 taxonomy, new species 10658

Anagyris pseudococci
 biology, environmental factors 4482
 hosts, *Planococcus citri* 4482

Ananas comosus (see Pineapples)

Anaphes
 hosts, *Oulema melanopus* 7882
 tobacco, fields, Ontario 7882

Anaphes diana
 control
 Sitona 9014
 Sitona discoideus 2685
 evaluation 6770
 ecology, climatic factors 6770
 lucerne, fields, Australia 2685

Anaphes gauthieri
 German Federal Republic 3989
 hosts, *Rhynchaenus populicola* 3989

Anaphes iole
 Amaranthus retroflexus, habitats, Quebec 6652
 anatomy 208
 biology 208
 hosts
 Lygus hesperus 2448
 Lygus lineolaris 6652
 Miridae 208
 marking 2448
 taxonomy, synonyms, *Anaphes ovijentatus* 208

Anaphes ovijentatus (see *A. iole*)
 taxonomy, synonyms, of *Anaphes iole* 208

Anaphothrips obscurus, maize, Iowa 9556

Anarthopus, taxonomy, synonyms, of *Tetracnemoidea* 2124

Anarthopus sydneyensis, taxonomy, to *Tetracnemoidea* 2124

Anarsia anthrivotra, *Manilkara hexandra*, India 1883

Anarsia ephippias
 biology 3867
 control, insecticides 3867
 food plants, India 3867

Anarsia lineatella
 attractants 4705, 6136
 biology, phenology 4705
 control, integrated control 8628
 Czechoslovakia 6136
 fruit trees, Iraq 4705
 monitoring, traps 4705, 6136
 peaches
 California 8633, 8635
 Italy 8628

Anas rubripes, insecticides, residues 10125

Anasa tristis
 biology 11702
 behaviour 10781
 diapause 11711
 Cucurbitaceae 11702
 Oklahoma 10781
 parasitoids 5449
 pumpkins, Illinois 11711

Anastatus
 biology 824
 China 824
 hosts, insects 824
 rearing techniques 2457

Anastatus bifasciatus
 biology 5932
 forests, Italy 5932
 hosts
 fruits, insects 2723
 Thaumetopoea processionea 5932
 orchards, USSR 2723
 taxonomy, keys 2723

Anastatus disparis (see *A. japonicus*)

Anastatus japonicus
 France 4016
 hosts
 Lymantria dispar 4016
 Riptortus clavatus 8692
 Tessaratoma papillosa 9425
 insecticides
 effects 9414
 toxicity 9423
 legumes, fields, Japan 8692
 rearing techniques 9425

Anastatus ramakrishnae
 hosts, Hemiptera 5004
 Prosopis cineraria, forests, India 5004

Anastatus semiflavids
 biology, environmental factors 8332
 hosts, *Hemileuca oliviae* 8332

Anastrepha
 Anastrepha bistrigata, differentiation 2142
 apples, Brazil 2733
 Brazil 2142
 control, insecticides 2733
 distribution 3753
 fruits 3753
 Costa Rica 4479
 mangoes, Venezuela 5765
 monitoring, traps 5765
 parasitoids 4479, 9398
 taxonomy 2141

Anastrepha bistrigata
 Anastrepha, differentiation 2142
 guavas, Brazil 2142
 taxonomy 2142

Anastrepha chicleyae
 biology, phenology 8636
 fruits, Mexico 8636
 monitoring, traps 8636

Anastrepha distincta
 biology, phenology 8636
 fruits, Mexico 8636
 monitoring, traps 8636

Anastrepha fraterculus
 anatomy, salivary glands 2157
 biology, phenology 8636
 fruits, Mexico 8636
 Galapagos Islands 4797
 monitoring, traps 4797, 8636

Anastrepha grandis
 Cucurbitaceae, America 2141
 taxonomy 2141

Anastrepha leptozona
 biology, phenology 8636
 fruits, Mexico 8636
 monitoring, traps 8636

Anastrepha ludens
 attractants 9028, 9732, 10715
 biology
 behaviour 9732
 phenology 8636
 Citrus, commodities 10046
 control 10046
 hot water treatment 11891
 fruits
 commodities 9398
 Mexico 8636
 mangoes
 commodities 11891

Anastrepha ludens cont.
 mangoes cont.
 Mexico 9732
 monitoring, traps 8636, 9028, 9732
 morphology, developmental stages 5278
 parasitoids 8636, 9398
 pheromones 10715
 taxonomy 5278
 Texas 9028

Anastrepha montei
 biology, phenology 8636
 fruits, Mexico 8636
 monitoring, traps 8636

Anastrepha obliqua
 attractants 9732
 biology 1021
 behaviour 9732
 phenology 8636
 control 1021
 hot water treatment 11891
 distribution, maps 6458
 fruits
 America 6458
 Mexico 8636
 mangoes
 commodities 11891
 Mexico 9732
 monitoring, traps 8636, 9732
 parasitoids 8636, 10067
 pathogens 10067
 rearing techniques 10067

Anastrepha serpentina
 attractants 9732
 biology
 behaviour 9732
 phenology 4771, 8636
 control, hot water treatment 11892
 fruits, Mexico 8636
 mangoes
 commodities 11892
 Mexico 9732
 monitoring, traps 4771, 8636, 9732
 parasitoids 8636
 sapodillas, Venezuela 4771

Anastrepha striata
 biology, phenology 4798, 8636
 fruits, Mexico 8636
 guavas, Venezuela 4798
 monitoring, traps 4798, 8636
 parasitoids 8636

Anastrepha suspensa
 Averrhoa carambola, commodities 8964
 biology 9351
 behaviour 3378, 3818, 7350
 control 3074
 cold storage 8964
 hot water treatment 3079
 insecticides 5101
 Cuba 8356
 detection 3818
 diets 9351
 food plants, Cuba 5548
 fruits, commodities 3074
 grapefruits 3818
 commodities 5101
 guavas, Florida 2779
 mangoes, commodities, Florida 3079
 monitoring, traps 2779
 natural enemies 11329
 parasitoids 10323, 11475
 pathogens 11475
 pheromones 6781, 7350
 synthesis 6781
 physiology
 endocrine system 11329
 proteins 3340
 reproduction 2255
 predators 8356
 radiation, effects 10323
 rearing techniques 9351
 songs 3378

Anastrepha tripunctata
 biology, phenology 8636
 fruits, Mexico 8636
 monitoring, traps 8636

Ancient monuments, pest control, India 11873

Ancistrotermes, food plants, Nigeria 5508

Ancistrotermes cavithorax
 ecology, population dynamics 10486

- Ancistrotermes cavithorax* cont.
soil, Ivory Coast 10486
- Ancyliis achatana*
attractants 2228
USSR 2228
- Andaspis*
legumes 1831
taxonomy 1831
- Andaspis arcana*
Acacia asak, Saudi Arabia 1831
taxonomy, new species 1831
- Andorra*
Heterocera 4396
Histeridae 7429
- Andraca bipunctata*
control, insecticides 4958
natural enemies 4958
parasitoids 2497
tea, China 4958
tropics 2497
- Andrallus*, taxonomy 2483
- Andrallus spinidens*
biology 6894
prey, *Rivula* 6894, 8713
soyabeans, fields, India 6894, 8713
taxonomy 2483
- Andrector arcuatus* (see *Cerotoma arcuata*)
- Andrector ruficornis* (see *Cerotoma ruficornis*)
- Andrena*
parasitoids 3226
taxonomy 1032
- Andricus, Quercus incana*, galls 6012
- Andricus gallaetinctoria*
physiology, secretions 7078
Quercus, Iraq 7078
- Andricus hartigi*
physiology, secretions 7078
Quercus, Iraq 7078
- Andricus insana*
physiology, secretions 7078
Quercus, Iraq 7078
- Andricus mukaigawae*
Japan 1867
Quercus, galls 1867
races 1867
- Andricus multiplicatus*, Romania 2140
- Androctonus mauretanicus*
biology, behaviour 280
prey, *Psammotermes hybostoma* 280
- Androlaelaps casalis*
grain stores, Manitoba 11876
insecticides, effects 11876
- Andropogon brachystachyus, Achurum carinatum*, Florida 2669
- Andropogon gayanus*
Cercopidae, resistance 4679
Zulia colombiana, varietal susceptibility 1512
- Andropogon gerardii*
Conioscinella nuda, Oklahoma 5678
Contarinia watti, South Dakota 10645
insects, Kansas 8528
- Andropogon scoparius* (see *Schizachyrium scoparium*)
- Andropogon virginicus* var. *glaucus*,
Achurum carinatum, Florida 2669
- Androsace kosopoljanskii, Agriades pyrenaicus*, USSR 3634
- Androthrips flavipes*
India 2468
prey, *Arrhenothrips ramakrishnae* 2468
- Anelosimus eximius*
biology, behaviour 237
French Guiana 237
- Anemone coronaria*
insects, pollination 6993
Macrosteles striifrons, Japan 5565
- Anethum graveolens*
arthropod pests, bibliographies 2075
Delia antiqua 715
extracts, toxicity, *Sitophilus oryzae* 7098
Helicoverpa armigera, India 348
- Aneurus pygmaeus*
distribution, Arkansas 3410
Quercus 3410
- Angelica arguta, Papilio zelicaon*, California 3358
- Angelica atropurpurea, Chauliognathus marginatus*, Maryland 4091
- Angelica lucida, Papilio zelicaon*, Washington 5568
- Angelica sylvestris*, extracts, antifeedants, *Spodoptera littoralis* 3150
- Angiosperms, Scolytidae, damage 10993
- Angola, *Paoliella harteni*, parasitoids 11799
- Angophora costata, Doratithynnus althoferi*, Australia 17
- Anhinga anhinga*, insecticides, residues 8110
- Anicetus annulatus*, hosts, *Coccus pseudomagnoliarum* 2756
- Anicetus beneficus*
China 3968
hosts, *Ceroplastes japonicus* 3968
- Anicetus brevicaudatus*, taxonomy, synonyms, of *Paraceraptocherus italicus* 2459
- Anicetus integrellus*, taxonomy, synonyms, *Anicetus yasumatsui* 2459
- Anicetus thymi*
hosts, *Parthenolecanium persicae* 4540
taxonomy, new species 4540
USSR 4540
- Anicetus yasumatsui*, taxonomy, synonyms, of *Anicetus integrellus* 2459
- Anilara obscura, Flindersia xanthoxyla*, Australia 4007
- Anilara olivia, Flindersia xanthoxyla*, Australia 4007
- Anilazine, mixtures, nontarget effects, wheat, arthropods 2038
- Anilino-naphthalene-8-sulfonic acid, effects, Lepidoptera 9477
- Animals
insecticides, effects 4247-4248, 6180, 7302-7303, 8056, 9137
movement, models 5372
plant extracts, effects 9050
- Anisochrysa boninensis* (see *Mallada boninensis*)
- Anisochrysa obvia*, distribution, India 1338
- Anisodactylus santaecrucis*
biology, behaviour 8733
carrots, fields, Quebec 8733
prey, *Listronotus oregonensis* 8733
- Anisobolus indicus*, hosts, *Oryzaephilus mercator* 11046
- Anisopteromalus*
Africa 4465
taxonomy 4465
- Anisopteromalus apiovorus*
hosts, Coleoptera 4465
Ivory Coast 4465
taxonomy, new species 4465
- Anisopteromalus calandreae*
biology, phenology 7985
grain stores, Georgia 3052
hosts
Lasioderma serricorne 1899, 7985
Sitophilus zeamais 3052
- Anisopteromalus caryedophagus*
hosts, Coleoptera 4465
Ivory Coast 4465
taxonomy, new species 4465
- Annelida
insecticides
effects 10126
residues 11191
- Annona
Carpophilus hemipterus, pollination 1595
orchards, beneficial insects, Queensland 7747
Planococcus citri, Queensland 7747
- Annona bullata*, extracts, pesticidal properties 9038
- Annona cherimola*
Brevipalpus pseudostriatus, Costa Rica 802
insect pests, Venezuela 9734
- Annona cherimola* × *A. squamosa*
Colopterus posticus, Florida 4794
pollinators, Florida 4804
- Annona glabra*, extracts, toxicity, insects 10116
- Annona montana*, insect pests, Venezuela 9734
- Annona muricata*
Apate monachus, Cuba 1580
extracts, toxicity, insects 10116
insect pests
Trinidad and Tobago 1596
Venezuela 9734
- Annona purpurea*, insect pests, Venezuela 9734
- Annona reticulata*
extracts, toxicity, insects 10116
insect pests, Venezuela 9734
- Annona squamosa*
extracts
toxicity
Corcyra cephalonica 2014
insects 10116
insect pests, Venezuela 9734
- Annonaceae, extracts, insecticidal properties 4228, 10116
- Anobiidae
conifers, Morocco 5984
North America 3557
parasitoids 3557
- Anobium*
Czechoslovakia 4405
parasitoids 4405
- Anobium pertinax* (see *Hadrobregmus pertinax*)
- Anobium punctatum*
biology 8960
wood 1911
Italy 8960
- Anoeciidae, physiology, enzymes 1060
- Anogeissus acuminata, Nyphasia apicalis*, India 1816
- Anogmus
hosts, *Plemeliella abietina* 9997
Picea abies, forests, Poland 9997
- Anolis*, prey, *Etiella zinckenella* 1527
- Anomala*, crops, India 6501
- Anomala cuprea*
insecticides, toxicity 10110
pathogens 1943
- Anomala cupripes*, taxonomy 4275
- Anomala expansa*, taxonomy 4275
- Anomala testaceipes* (see *Mimela testaceipes*)
- Anomalochrysa maclachlani*
biology, behaviour 9417
forests, Hawaii 9417
parasitoids 2471
prey, insect pests 9417
songs 9417
- Anomis*
morphology, genitalia 10237
taxonomy 10237
- Anomis flava*
control 2831
morphology, genitalia 10237
taxonomy 10237
Vigna radiata, India 2831
- Anomis involuta*
biology, phenology 1744
jute, Pakistan 1744
natural enemies 1744
- Anomis mesogona*
fruit trees, Korea Republic 3747
monitoring, traps 3747
morphology, genitalia 10237
taxonomy 10237
- Anomis sabulifera*
insecticides, toxicity 7190
morphology, genitalia 10237
plant extracts, antifeedants 11238
taxonomy 10237
- Anoplonyx orientis*
Larix leptolepis, Japan 2970
taxonomy, new species 2970
- Anoplophora glabripennis*, pathogens 5117
- Anoplophora maculata*
control, insecticides 1815
Ziziphus mauritiana, Taiwan 1815
- Anoplophora malasiaca*
Citrus, Japan 9704, 9709
control 9704
insecticides 5748
microbial pesticides 1587
mandarins 1587
monitoring, traps 5748
Poncirus trifoliata, Japan 5748

- Antarctica**
 Coleoptera 1186
 Diptera 1187
Ptinus tectus 4389
- Antennoseius janus**
 biology, development 2465
 Colorado 2465
 morphs 2465
 prey, invertebrates 2465
 taxonomy, new species 2465
- Antenophoridae**
 biology, behaviour 4447
 hosts, Formicidae 4447
- Antestiopsis**
 coffee, East Africa 769
 sampling 769
- Anthela varia**, *Eucalyptus*, Australia 11005
- Anthemus**
 Africa 3574
 hosts, Diaspididae 3574
 taxonomy 3574
- Anthemus affinis**
 hosts, *Quadraspidiotus perniciosus* 3574
 South Africa 3574
 taxonomy, new species 3574
- Anthemus borealis**
 hosts, *Ceroplastes destructor* 3574
 South Africa 3574
 taxonomy, new species 3574
- Antheraea**
 genetics, RNA 5348
 India 10494
 parasitoids 3525
- Antheraea assama** (see *A. assamensis*)
- Antheraea assamensis**
 biology 3596
 India 4557
 parasitoids 4557
- Antheraea eucalypti**
 cell lines
 pathogens 4142
 cloning 7145
- Antheraea mylitta**
 biochemistry, eggs 9420
 biology 7541, 10958
 environmental factors 2530
 geographical races 10986
 cold storage 10330
 forest trees, India 10986
 India 9473
 morphology 9473
 natural enemies 7541, 10958
 pathogens 2531
 physiology, chemical composition 1124
 rearing techniques 9473
Terminalia tomentosa, India 7541, 10958
- Antheraea paphia**
 biology 10490
 India 9473, 10490
 morphology 9473
 rearing techniques 9473, 10490
- Antheraea pernyi**
 biology, development 2174
 chemicals, effects 9477
 food, *Bracon hebetor* 4496
 forest trees 3593
 morphology 1825
 parasitoids 824, 2457, 2731, 3126, 7508
 pathogens 4113
 physiology 286
 metabolism 3593
 muscles 1098
 pheromones 2223
- Antheraea polyphemus**
 genetics, gene mapping 118
 pheromones 10280
 physiology
 chemical composition 1124
 pheromones 2223-2224
 reproduction 6610
 sense organs 5327, 10280
- Antheraea yamamai**
 biology, development 2174
 morphology, colour 9466
 physiology, environmental factors 9466
- Anthicidae**
 distribution 9337
- Anthicidae cont.**
 soil, Italy 2983
 taxonomy 9180, 9337
- Anthio** (see Formothion)
- Anthocharis belia**
 ecology, distribution 5020
 woodlands, Spain 5020
- Anthocharis cardamines**
 cereals, UK 8457
 ecology, distribution 5020
 herbicides, effects 8457
 woodlands, Spain 5020
- Anthocoridae**
 biology 1304
 Israel 1182
 prey, *Uresiphita reversalis* 5550
- Anthocoris confusus**, distribution, Israel 1182
- Anthocoris gallarumulmi**
 biology 9447
 prey, Aphididae 9447
- Anthocoris nemoralis**
 ecology, spatial distribution 8622
 Israel 1182
 pears
 orchards
 Italy 8622
 Switzerland 4762
 prey
Cacopsylla pyri 8622
 insects 1182
 Psyllidae 4762
- Anthocoris nemorum**
 pears, orchards, Switzerland 4762
 potatoes, fields, USSR 1696
 prey
 Hemiptera, predators 1696
 Psyllidae 4762
- Anthomyiidae**
 biology 3674
 control, insecticides 3674
 Czechoslovakia 6451
 maize, damage 3674
- Anthonominae**, taxonomy 3246
- Anthonomus**
Amelanchier alnifolia, Saskatchewan 7721
 taxonomy
 synonyms
Tachypterellus 8201
Tachyterus 8201
- Anthonomus consors**
 biology 8201
 evolution 8201
 Rosaceae, North America 8201
 taxonomy, from *Tachypterellus* 8201
- Anthonomus consors cerasi**, taxonomy, synonyms, *Tachypterellus consors cerasi* 8201
- Anthonomus eugenii**
Alternaria alternata, interactions 1718
Capsicum, Puerto Rico 9857-9858
Capsicum annuum
 damage 1718
 Guatemala 4906
 Mexico 9742
 control, insecticides 4906
 ecology, distribution 9742
 monitoring, traps 9858
 sampling 9742, 9857
- Anthonomus grandis**
 attractants 4923, 6969, 7866
 biochemistry, fatty acids 6955
 biology 4918
 behaviour 6969, 7865, 8772
 environmental factors 6975
 overwintering 7866
 Brazil 2913
 control 1017, 4918, 8770
 insecticides 742, 4918, 5886, 6958-6959
 microbial pesticides 5581
 sterile insect release 4924
 cotton 944, 6955
 Arizona 4923-4924
 Arkansas 7856
 Brazil 4918, 6958-6959, 8770
 Mexico 742, 11769
 Mississippi 6969
 resistance 8772
 Texas 5886, 6975
- Anthonomus grandis cont.**
 cotton cont.
 USA 9882
 diets 944, 9366
 ecology 11769
 forecasting 6975
 growth regulators, effects 944
 monitoring, traps 6969, 7866, 8770, 9882
 pathogens 2913
 pheromones 65, 6542
 plant extracts
 effects 6969, 8772
 food preferences 7865
 plant proteins, toxicity 9105
 radiation, effects 944, 10324
 rearing techniques 9366
 sampling 7866
 Texas 7866
- Anthonomus grandis grandis**
 biology 8779
 food preferences 5879
 overwintering 4937
 control
 insecticides 2923-2924, 6982
 sterile insect release 5881
 cotton
 Georgia 2924
 Louisiana 2925, 6982
 Mississippi 5881
 Texas 4937, 6978
 USA 2923
 food plants 5879
 Arizona 8779
 genetics, mutants 6375
 growth regulators, effects 3170
 insecticides, toxicity 9353
 natural enemies 6978
 physiology, pheromones 9358
 plant extracts, effects 5879
 radiation, effects 3170
 rearing techniques 9358
- Anthonomus heterothecae**
 parasitoids 8425
 Texas 8425
- Anthonomus pomorum**
 apples, Poland 8611
 control, growth regulators 8611
- Anthonomus quadrigibbus**
 biology 8201
 evolution 8201
 Rosaceae, North America 8201
 taxonomy, from *Tachypterellus* 8201
- Anthonomus quadrigibbus magna**, taxonomy, synonyms, *Tachypterellus quadrigibbus magnus* 8201
- Anthonomus rectirostris**
 biology 11653
 distribution, UK 2363
Prunus cerasus, German Democratic Republic 11653
- Anthonomus rubi**
 control
 insecticides 506, 8557-8558, 10672
 microbial pesticides 501
 raspberries, USSR 506
 small fruits, Switzerland 5705
 strawberries
 Austria 8557, 10672
 Poland 8558
 USSR 501
- Anthoseius caudiglans**
 apples, orchards, Ontario 4750
 distribution, China 1885
 prey, Tetranychidae 4750
- Anthoxanthum odoratum**
Acetropis gimmerthalii, Netherlands 8303
Lissorhoptrus oryzophilus 7581
- Anthrenus flavipes**
 control, controlled atmospheres 5079
 insecticides, toxicity 1892, 11013
 museum specimens 5079
 wool 1892
- Anthrenus sarnicus**
 biology, development 8926
 distribution, UK 2363
- Anthrenus verbasci**, pheromones 1895
- Anthrenus vorax** (see *A. flavipes*)
- Anthrribidae**
 biogeography 11387

- Anthribidae cont.**
 ectoparasites 3514
 Italy 11387
 Ivory Coast 2486, 3514
 parasitoids 2486
 yams, commodities, India 7089
- Anthriscus yellows virus, vectors,**
 Aphididae 7124
- Anthurium**
Aleurotulus anthuricola, America 4964
Chaetanaphothrips orchidii 6459
 pest control 9906
 seeds, *Camponotus femoratus*, Peru 10402
- Anthurium andraeanum**, pesticides, toxicity 780
- Antibiotics**
 effects, Aphididae, symbionts 4844
 mixtures, toxicity, *Tribolium castaneum* 4173
- Anticarsia gemmatilis**
 attractants 11725
 biology 222, 11683
 behaviour 6895
 polymorphism 10326
 cell lines, pathogens 4095, 4140
 control
 insecticides 1666
 microbial pesticides 4860
 diets 1096
 ecology
 distribution 9806
 population dynamics 11729
 Florida 925
 food plants 4591
 Brazil 8335
 identification 6893
 insecticides, pathogenicity 4130, 6095
 legumes 11683
 models 1666
 monitoring, traps 925
 morphology, eggs 6893
 natural enemies 7132, 9807
 parasitoids 222, 3496, 8335
 pathogens 891, 894, 1945, 4095, 9802, 9805
 physiology 11683
 digestion 4591
 enzymes 54
 lipids 2278
 nutrition 1096
 predators 4862, 7532, 8712, 11720
 sampling 9806
 soyabeans 1666, 2278
 Arkansas 9802, 9805
 Brazil 4855, 4860, 11720
 Florida 4862, 6893, 6895, 7801, 11725, 11729
 Louisiana 9806-9807
 resistance 8714
 varietal susceptibility 8715
- Antifeedants**
 application 5225
 biosynthesis 3137
 genetic engineering 3137-3138, 7232
 pest control 3090
 plant extracts 4228
Spodoptera, reviews 7245
 synthesis 5223
- Antigastra catalaunalis**
 control, insecticides 6951
 parasitoids 8766, 11765
 sampling 11764
 sesame
 India 6951, 8766, 11764-11765
 varietal susceptibility 7848
- Antilochus coqueberti**, physiology, chemical composition 1126
- Antirrhinum majus**
Helicoverpa armigera, damage 6997
Heliothis virescens, Cuba 10898
- Antitrogus mussoni**
 ecology, distribution 3646
 sampling 3646
 sugarcane, Queensland 3646
- Antitrogus parvulus**
 control, microbial pesticides 6688
 ecology, distribution 3646
 sampling 3646
 sugarcane
 Australia 6688
- Antitrogus parvulus cont.**
 sugarcane cont.
 Queensland 3646
- Ants (see Formicidae)**
- Anuraphis subterranea**
 pathogens 3116
 USSR 3116
- Anystis baccharum**
 biology 1331
 USSR 1331
- Aonidiella aurantii**
 biology 2763
 phenology 4787
- Citrus**
 commodities 7117
 Israel 2763, 7744
 South Africa 3812, 3815
Citrus maxima, India 11664
 control
 biological control 3815, 11664
 insecticides 781, 7117, 7744
 mating disruption 5172
 ecology, population dynamics 4779
 growth regulators, effects 2763
 models 2442
 monitoring, traps 4779
 natural enemies 2442
 oranges, South Africa 4779, 4787
 parasitoids 4779, 11664
 physiology, pheromones 3293
 roses, India 781
 South Africa 2442
- Aonidiella citrina**, *Encarsia lounsburyi*, differentiation 9446
- Aoromius quinquepunctatus (see Tychius quinquepunctatus)**
- Apamea anceps**
 attractants 384, 12011
 cereals, USSR 12011
 control, microbial pesticides 5794
 forecasting 2619
 monitoring, traps 384
 USSR 5794
 wheat, USSR 384, 2619, 8464
- Apamea ophiogramma**
 Italy 9888
 monitoring, traps 9888
- Apamea sordens**, wheat, USSR 10556
- Apanteles**
 biology, environmental factors 5483
 cabbages, fields, India 10773
 China 5782
Citrus, orchards, India 1584
 Gramineae, fields, Brazil 5601
 hosts
 Antigastra catalaunalis 8766
 Chrysodeixis eriosoma 10773
 Conopomorpha cramerella 10737
 Cydia leucostoma 2935
 Diaphania indica 5782
 Ectomyelois ceratoniae 5483
 Macalla thyrsisalis 7943
 Noctuidae 5601
 Omiodes indicata 1659
 Parasa viridissima 1542
 Psorosticha zizyphi 1584
 Nigeria 1542
 orchards, Taiwan 10737
 pomegranates, orchards, Iraq 5483
 sesame, fields, India 8766
 soyabeans, fields, China 1659
 Swietenia, habitats, Florida 7943
 taxonomy 2456
 tea, plantations, India 2935
- Apanteles acutulus**, distribution, Europe 2508
- Apanteles agonoxenae**
 biology 3758
 distribution 3758
 hosts, *Agonoxena argaula* 3758
 Oceania 3758
 taxonomy, synonyms, *Apanteles orelia* 3758
- Apanteles angaleti**
 biology, phenology 1743
 cotton, fields, India 1743, 6972
 hosts, *Pectinophora gossypiella* 1743, 6972
- Apanteles aristaeus**
 hosts, *Cydia leucostoma* 6988
 tea, plantations, India 6988
- Apanteles brunnistigma**
Citrus, orchards, Italy 2765
 hosts, *Archips rosanus* 2765
- Apanteles chilonis (see Cotesia chilonis)**
- Apanteles colemani**
 hosts, *Amsacta albistriga* 2846
 insecticides, effects 2846
- Apanteles congregatus**
 hosts
 Erinnyis ello 217
 Manduca sexta 5474, 7503
 insecticides, effects 217
 physiology, development 7503
 rearing techniques 217
- Apanteles creatonoti**
 hosts, *Amsacta albistriga* 2846
 insecticides, effects 2846
- Apanteles cypripis**
 China 1167
 hosts, *Cnaphalocrocis medinalis* 1167, 9421
 insecticides, toxicity 9421
 pesticides, effects 1167
- Apanteles eugeni**, taxonomy 2456
- Apanteles falcatus**, taxonomy 2456
- Apanteles flavipes (see Cotesia flavipes)**
- Apanteles fredii**
 Guatemala 263
 hosts, *Diatraea* 263
 taxonomy, new species 263
- Apanteles fumiferanae**, hosts, *Choristoneura fumiferana* 7939
- Apanteles galleriae**, hosts, *Achroia innota* 1286
- Apanteles glomeratus (see Cotesia glomerata)**
- Apanteles glomeratus group**
 checklists 2508
 distribution, Europe 2508
 hosts 2508
 morphology 2508
 taxonomy 2508
- Apanteles hyphantriae (see Cotesia hyphantriae)**
- Apanteles inclusus**
 forests, Hungary 8851
 hosts, *Dendrolimus pini* 8851
- Apanteles kariyai**
 attractants 6548, 10456
 fluids, effects, *Mythimna separata* 5302
 hosts
 Mythimna 10456
 Mythimna separata 6548, 10449
 venoms 5302
- Apanteles kurdjumovi (see Cotesia kurdjumovi)**
- Apanteles lateralis**, taxonomy 2456
- Apanteles lineola**, distribution, Europe 2508
- Apanteles machaeralis**
Citrus, orchards, India 11660
 hosts, *Psorosticha zizyphi* 11660
- Apanteles marginiventris (see Cotesia marginiventris)**
- Apanteles melitaearum**, distribution, Europe 2508
- Apanteles memnon**, distribution, Europe 2508
- Apanteles obliqueae**
 hosts, Lepidoptera 1744
 jute, fields, Pakistan 1744
- Apanteles octonarius group**
 hosts, *Cydia leucostoma* 2935
 tea, plantations, India 2935
- Apanteles orelia**, taxonomy, synonyms, of *Apanteles agonoxenae* 3758
- Apanteles orientalis**
 hosts, *Exelastis atomosa* 3568
 morphology 3568
- Apanteles papilionis (see Distatrix papilionis)**
- Apanteles plutellae (see Cotesia plutellae)**
- Apanteles polychrosidis**
 grapes, habitats, New York 11623
 hosts, *Polychrosis viteana* 11623
- Apanteles ruficrus (see Cotesia ruficrus)**
- Apanteles salebrosus**, distribution, Europe 2508
- Apanteles sauros**
Cajanus cajan, fields, India 2836
 hosts, *Cydia critica* 2836

Apanteles sensu lato
checklists, Europe 265
hosts 265
taxonomy 265

Apanteles sesamiae
hosts, Lepidoptera 1508
sorghum, fields, South Africa 1508

Apanteles sotades (see *A. brunnistigma*)

Apanteles subandinus
distribution, Victoria 10826
hosts, *Phthorimaea operculella* 10826
potatoes, fields 10826

Apanteles telengai (see *Cotesia telengai*)

Apanteles ultor group
biology, environmental factors 5483
hosts
 Antigastra catalaunalis 8766
 Ectomyelois ceratoniae 5483
 pomegranates, orchards, Iraq 5483
 sesame, fields, India 8766

Apanteles vitripennis (see *Glyptapanteles vitripennis*)

Apeate monachus
control, cultural control 1580
food plants, Cuba 1580

Apechthis compunctor
hosts, Lepidoptera 2982
 Quercus, forests, Romania 2982

Apethymus abdominalis
 Quercus, France 2972
taxonomy 2972

Apethymus braccatus
 Quercus, France 2972
taxonomy 2972

Apethymus serotinus
 Rosa, France 2972
taxonomy 2972

Aphaenogaster carolinensis (see *A. texana carolinensis*)

Aphaenogaster occidentalis
Colorado 10412
 Solenopsis invicta, interactions 10412

Aphaenogaster subterranea, biology, behaviour 196

Aphaenogaster texana carolinensis
biology 4008
 Pinus pungens, habitats, Virginia 4008

Aphaereta minuta, morphology, reproductive organs 3567

Aphalara
 Cardamine cordifolia, Colorado 7707
control, insecticides 7707

Aphalara exilis, plant pathogens, transmission 6702

Aphelenchidae, hosts, Scolytidae 7055

Aphelenchoides pityokteini, hosts, *Pityokteines sparsus* 5962

Aphelinidae
hosts, *Dysaphis pyri* 5736
morphology 6255
orchards, Iraq 5736
taxonomy 6255

Aphelinus abdominalis
detection 10561
hosts, *Sitobion avenae* 10561, 11440
identification, electrophoresis 11440
wheat, fields, UK 10561

Aphelinus asychis
biology, behaviour 8393
control, Aphididae 11786
hosts, *Acyrtosiphon pisum* 8393
ornamental plants, habitats, German Federal Republic 11786

Aphelinus kashmiricus
buckwheat, fields, India 5597
hosts, *Aphis gossypii* 5597

Aphelinus mali
 Aphelinus paramali, differentiation 1737
apples, orchards, India 6812
biology, environmental factors 11446
control, *Eriosoma lanigerum* 6812
hosts, *Eriosoma lanigerum* 8372, 11446
insecticides, toxicity 8372

Aphelinus paoliellae
Angola 11799
hosts, *Paoliella harteni* 11799
taxonomy, new species 11799

Aphelinus paramali
 Aphelinus mali, differentiation 1737

Aphelinus paramali cont.
cotton, fields, Israel 1737
hosts, *Aphis gossypii* 1737
taxonomy, new species 1737

Aphelinus varipes
hosts, Aphididae 2612
Texas 2612

Aphelonyx cerricola
physiology, secretions 7078
 Quercus, Iraq 7078

Aphelopus melaleucis
hosts, Auchenorrhyncha 11450
Mediterranean countries 11450

Aphidencyrus aphidivorus
hosts, *Diaeretiella rapae* 5789
kale, fields, USA 5789

Aphididae
antifeedants 3090
apples
 German Federal Republic 3799
 Italy 5728
 Japan 5492
 Massachusetts 8617
 Washington 3792
bacteria, interactions 5395
bamboos, China 8414
barley 5684, 7601
 Europe 8071
 New Zealand 10581
 resistance 5609
 Yemen 4652
biology 3792, 4233, 4411, 10892
 behaviour 3453
 development, models 9171
 environmental factors 10349
 migration, reviews 1421
 phenology 8443, 8737
 sex ratio 137
books 4233, 7278
Brussels sprouts, UK 5484
cabbages, Brazil 8676
cereals
 Ethiopia 10554
 France 10569
 Latin America 5160
 Poland 8466
 Switzerland 3651
 USSR 4615
checklists, North America 5386
chicory, Italy 4816
China 7523
 Citrus, orchards, Ethiopia 1582
control 1440, 3792, 4233, 5236-5237, 6961, 7278
 alarm pheromones 11312
 biological control 213, 3964, 5862, 6115-6116, 9024, 11786
 reviews 7044
 cultural control 8689
 insecticides 388, 699-700, 728, 910, 1683, 2864, 3944, 4615, 5162, 5599, 5606, 6245, 6924, 7601, 8071, 8468, 8558, 9923, 10569, 10581, 10671, 10673, 11715
 integrated control 8617, 9532, 10847
 microbial pesticides 775, 3125
 models 3651
 physical control 11708
cotton 6961
 India 2911
 Texas 2906
distribution 10226
 India 1189, 3437
 Jordan 5392, 10366
 Switzerland 4411
ecology
 population dynamics 389
 reviews 4359
enzymes, electrophoresis 9655
 Eupeodes corollae, interactions 2458
evolution 9129, 9171
feeding, bioassays 6489
field crops
 German Democratic Republic 8447
 Hungary 8446
 India 9740
Finland 5122
flight, investigation 3453
food plants 3437, 10226, 10366

Aphididae cont.
food plants cont.
 China 4921
 Israel 1855
 Spain 5549
forecasting 10559
forest trees
 Czechoslovakia 4011
 North America 3419
 USSR 1809
fruit trees
 India 3754
 USSR 4728
genetics 3350
 chromosomes 3353
Gramineae, UK 8443
grasslands
 France 10387
 Spain 4452
greenhouse crops 5862
 German Democratic Republic 775, 910
 Iraq 5162
 USSR 213, 6115-6116
greenhouses, German Federal Republic 3964
India 3350, 3353, 3746, 5480, 5496
Italy 3500
lettuces, resistance 1610
 Limnitis weidemeyerii, honeydew 2314
lucerne
 Argentina 5160
 California 11605
 Japan 9632
maize, German Federal Republic 4653
melons 8689
 California 11708
 resistance 8690
migrants, determination 4371
models 6961
monitoring 1421, 8447, 8461, 10832
traps 1682, 10387, 10829
natural enemies 1342, 3944, 4233, 10554
oats, Finland 1440
ornamental plants
 China 10892
 German Federal Republic 11786
 Hungary 9923
parasitoids 2137, 2602, 4011, 4492, 4728, 5480, 5484, 6573, 8368, 8676
pathogens 3114, 5122, 5771, 7130
peas, Hungary 11715
 Phaseolus vulgaris 10789
 tropics 8696
pheromones 11312
 reviews 7342
physiology
 enzymes 1060
 metabolism 4844
 pigments 59
plant pathogens 1421, 8696
transmission 699-700, 2871, 3090, 5703, 6915, 6924, 7124, 7601, 8447, 9831, 10569, 10581, 10789, 10832, 10841, 10847, 11062, 11067, 11708, 11899, 11902
 reviews 6059
plants, damage 7278
Poland 3435
potatoes
 Austria 6924
 Cyprus 2871
 Egypt 1683, 2864
 German Democratic Republic 10832
 India 1687, 7815
 Indonesia 699-700
 Manitoba 8737
 Netherlands 1682
 New Brunswick 6915, 10829
 resistance 10831
 Sweden 9831
predators 264, 374, 662, 683, 1182, 1278, 1433, 1517, 1687, 2480, 2518, 2599, 2906, 3419, 3500, 3528, 3754, 3774, 4653, 5487, 5492, 5496, 7523, 8414, 8461, 8466, 8468, 8777, 9593, 9632

Aphididae cont.

predators cont.

biology 7267

taxonomy, keys 7267

UK, books 7267

repellents 8676

rice, California 9593

sampling 4420

small fruits, Belgium 10671

strawberries

Belgium 10673

Poland 8558

sugarbeet, UK 6245

Switzerland 374

symbionts

isolation 5395

reviews 4844

taxonomy 4411, 5386, 10226, 11902

keys 7267

teratogenesis 4288

tobacco, Zimbabwe 3944

tomatoes

Israel 10847

Italy 10841

USSR 728

UK 7267, 10349

USSR 3125

vegetables

China 5771

resistance 7551

weeds, interactions 11605

wheat 2602, 10559

German Democratic Republic 388

German Federal Republic 1433,

2599, 2617, 5599, 8468

Hungary 8461

Netherlands 9532

Romania 5606

Spain 389

USSR 8464, 10556

Xanthomonas translucens, transmission

4652

Aphidiidae (see Braconidae; Aphidiinae)**Aphidiinae**

biology, migration 1281

flood debris, German Federal Republic

1281

Aphidiinae

distribution, India 3436

food plants 3436

Aphidiinae, physiology, enzymes 1060**Aphidius**

cabbages, fields, Brazil 8676

Ethiopia 10554

genetics, population genetics 4506

hosts

Acyrtosiphon pisum 4506

Aphididae 2137, 8676, 10554

morphology 2137

repellents 8676

taxonomy 2137

Aphidius avenae (see A. picipes)**Aphidius colemani**

biology, behaviour 8385

hosts, *Myzus persicae* 2866, 8385

potatoes, fields, India 2866

Aphidius eadyi

genetics, population genetics 4506

hosts

Acyrtosiphon 1532*Acyrtosiphon pisum* 4506

lucerne, fields, New Zealand 1532

Aphidius ervi

biology 392, 6566

Chile 6109

control, Aphididae 6109

detection 10561

genetics, population genetics 4506

hosts

Acyrtosiphon 1532*Acyrtosiphon pisum* 2451, 4506,

6566

Aphididae 6109

Sitobion avenae 392, 10561, 11440

identification, electrophoresis 11440

lucerne, fields, New Zealand 1532

morphology 2451

North America 2451

wheat, fields, UK 10561

Aphidius funebris

German Federal Republic 1392

Aphidius funebris cont.hosts, *Uroleucon* 1392

parasitoids 1392

Aphidius gifuensis, insecticides, toxicity

7509

Aphidius matricariae

biology, phenology 5480

control

greenhouse crops, arthropod pests

9019

Myzus persicae 6122

greenhouses, Hungary 9019

hosts, Aphididae 257, 3573, 5480

India 3573, 5480

pesticides, toxicity 8125

rearing techniques 257, 6122

USSR 6122

Aphidius nigripeshosts, *Macrosiphum euphorbiae* 261

physiology, diapause 9400

Aphidius picipes

China 749

Chinese cabbages, fields, China 749

detection 10561

genetics, population genetics 4506

hosts

Acyrtosiphon pisum 4506*Aphis gossypii* 749*Sitobion avenae* 10561, 11440

identification, electrophoresis 11440

wheat, fields, UK 10561

Aphidius pisiworis

biology 6566

genetics, population genetics 4506

hosts, *Acyrtosiphon pisum* 2451,

4506, 6566

morphology 2451

North America 2451

Aphidius rhopalosiphi

cereals, fields, New Zealand 2596

Chile 6109

control

Aphididae 6109

Metopolophium dirhodum 2596

detection 10561

hosts

Aphididae 6109

Sitobion avenae 10561, 11440

identification, electrophoresis 11440

wheat, fields, UK 10561

Aphidius smithi

biology 6566

genetics, population genetics 4506

hosts

Acyrtosiphon 1532*Acyrtosiphon pisum* 2451, 4506,

6566

lucerne, fields, New Zealand 1532

morphology 2451

North America 2451

Aphidius sonchi

biology 5574

hosts, *Hyperomyzus lactucae* 5574**Aphidius uzbekistanicus**

fields, India 9740

hosts

Aphididae 3573

Sitobion miscanthi 3648

India 3573

parasitoids 9740

wheat, fields, India 3648

Aphidoidea

evolution 2149

food plants 2149

fungicides, effects 2038

predators 2514

USSR 2514

wheat 2038

Aphidoletes aphidimyza

control

Aphididae 3964, 6115-6116, 11786

greenhouse crops, arthropod pests

5862, 9019

greenhouses 5862

German Federal Republic 3964

Hungary 9019

ornamental plants, habitats, German

Federal Republic 11786

physiology, reproductive organs 6589

prey, Aphididae 1278, 3552

rearing techniques 1278, 3552, 6115

Aphidoletes aphidimyza cont.

storage 10383

Aphidura acanthophylli*Acanthophyllum*, Iran 10663

taxonomy, new species 10663

Aphis

Chile 8985

distribution, USSR 3418

food plants 3418

Formicidae, interactions 3837

fruit trees, India 3837

genetics 3350

RNA 5348

India 3350

morphology 3418

digestive system 9179

pathogens 8985

predators 3903

taxonomy 3418, 9179

Aphis affinis*Mentha*, Portugal 9511

taxonomy 9511

Aphis armata

biology 343

Digitalis purpurea, German Demo-

cratic Republic 343

taxonomy 343

Aphis ceanothi*Camponotus*, interactions 1865*Ceanothus velutinus*, Oregon 1865**Aphis chloris**

biology, food preferences 3612

control, *Hypericum perforatum*, evalu-

ation 3612

Hypericum 3612

plant viruses, transmission 3612

Aphis citricola (see A. spiraeicola; Aphis*spiraeicola)***Aphis craccivora**

biology 2828, 6883

behaviour 2311

development 1602

migration 749

phenology 650, 4676

reproduction 9794

Cajanus cajan, India 9740*Capsicum annuum* 9856, 10852*Cicer arietinum* 8724

India 672, 2851, 2853

varietal susceptibility 1673

control 2825

biological control 4921

insecticides 6889, 9814

food plants 1602

China 749

Georgia 3774

India 3573

groundnuts, India 9814

India 11290

insecticides

effects 6166

toxicity 672, 9037

legumes 2828

India 6889, 7643

monitoring, traps 4676

morphology 11290

parasitoids 650, 2484, 3573, 5448,

5468, 9740

peas, India 2825

physiology, kairomones 5468

plant extracts, toxicity 1412, 9498

plant oils, effects 6887

plant pathogens 9796

transmission 5125, 5802, 6887,

7790, 9856, 10787, 10852

predators 1307, 2851, 3506, 6889,

7643, 9037

sorghum, Venezuela 4676

taxonomy 11290

Vicia faba 5802, 6883

China 10787

Syria 7790

Vigna mungo 6887, 9796*Vigna unguiculata*

Egypt 650

Nigeria 9794

resistance 5812

weeds, China 4921

Aphis euonymi, plant pathogens, transmis-

sion 6702

- Aphis fabae***
 bacteria, interactions 11379
 biology 3237, 10521
 behaviour 1160, 2323, 9308, 11371
Camponotus sylvaticus, interactions 4452
Capsella bursa-pastoris 10521
Capsicum annuum 9856
 control 1440
 cultural control 683, 1695
 insecticides 681, 702, 3771, 5848
 integrated control 4160
 microbial pesticides 775, 3125
 plant extracts 9783
Cycloneda limbifer, predators 2516
Eupatorium odoratum, India 336
 field crops, Hungary 8446
 food plants 5770
 German Democratic Republic 3237
 forecasting 1695
 genetics, chromosomes 5347
 German Democratic Republic 11123
 grapes, Romania 3771
 grasslands, Spain 4452
 greenhouse crops, German Democratic Republic 775
 honeydew 11452
 migrants, determination 4371
 monitoring, traps 11123
 parasitoids 3771, 9719, 11448
 pathogens 3116
Phaseolus vulgaris
 German Federal Republic 9783
 Iraq 8695
 Italy 11448
Phyllopertha horticola, interactions 10521
 physiology
 environmental factors 1054
 senses 2323
 plant extracts, toxicity 1413, 3641
 plant pathogens 8695
 transmission 702, 3903, 5770, 7790, 9856, 10830
 polymorphism 1054
 potatoes 1695
 India 5848
 Switzerland 10830
 USSR 702, 3903
 predators 1282, 2909, 9447
 German Federal Republic 681
 sugarbeet
 German Federal Republic 681, 683, 4160, 4873
 resistance 1677
 taxonomy 3237
 USSR 3116, 3125
Vicia faba 9719
 Finland 1440
 German Federal Republic 1282
 Iraq 627
 resistance 9797
 Syria 7790
 varietal susceptibility 1635
- Aphis fabae cirsiiacanthoidis***
Cirsium arvense, German Federal Republic 3611
 ecology, population dynamics 3611
 food plants, German Democratic Republic 3237
- Aphis fabae complex***, taxonomy 343
- Aphis fabae mordwilkoii***, food plants, German Democratic Republic 3237
- Aphis fabae solanella***
 food plants, German Democratic Republic 3237
 taxonomy 343
- Aphis frangulae***
 German Democratic Republic 11123
 monitoring, traps 11123
 plant pathogens, transmission 3903
 potatoes, USSR 3903
- Aphis frangulae gossypii*** (see *A. gossypii*)
- Aphis glycines***, predators 1290
- Aphis gossypii***
Allium ampeloprasum, Japan 9909
 aubergines, India 3855, 11757, 11759
 biology 1603, 1686, 1728, 2389
 behaviour 5910, 7787, 10343, 10891
 development 7869
 migration 749
Aphis gossypii cont.
 biology cont.
 phenology 1374, 4676
 reproduction 7562
 biotypes 8308, 9741
 buckwheat, India 5597
Camponotus japonicus, interactions 1225
Capsicum annuum 9856, 10852
 chrysanthemums 4967, 5910, 10083, 10891
Citrus 6829
 Florida 5747
 Spain 8639
 clementines, Spain 9717
 control 5236, 5874
 biological control 3127
 insecticides 702, 746, 1599, 3771, 3855, 3939, 4933, 5848, 9754, 9885, 10861, 10863, 11691, 11757, 11759
 integrated control 7785
 microbial pesticides 775, 3125, 4967
 cotton 1728, 2389, 4915, 5498
 Arizona 7869
 Cameroon 3939
 China 1727, 5874
 India 746, 4933, 10863
 Israel 1737
 Louisiana 10861
 Paraguay 8782
 Sudan 9885
 Texas 7870
 cucumbers 7784
 Cucurbitaceae 3861
 developmental stages, differentiation 8308
 ecology, population dynamics 1727, 7870, 8639, 9717
 food plants 6918, 7562
 China 749
 India 3573
 Japan 1374, 7761, 9741
 forecasting 1727
 fruit trees, Egypt 553
 genetics, chromosomes 6377
 grapes, Romania 3771
 greenhouse crops
 German Democratic Republic 775
 USSR 1599
 India 6918, 11290
 insecticides
 effects 5910, 10891
 pathogenicity 1948
 resistance 7761, 7821, 11173
 toxicity 6156, 9037
 Japan 1225
 loofah, India 9740
 melons, resistance 7787
 monitoring 10861
 traps 4676, 8639, 9717
 morphology 11290
 developmental stages 8308
 natural enemies 5236, 7785, 10083
 okras, India 9754, 11691
 parasitoids 749, 1737, 3573, 3771, 3861, 3927, 4921, 5597, 9740
 physiology
 enzymes 3277
 esterases 9741
 plant pathogens, transmission 702, 5747, 5841, 6829, 6853, 6918, 7784, 9846, 9856, 9909, 10795, 10842, 10852
 potatoes 5841, 7821
 India 1686, 5848
 USSR 702
 predators 224, 1225, 1307, 3503, 3928, 4529, 4915, 5498, 9037, 9875
 sorghum, Venezuela 4676
 taxonomy 11290
 tomatoes
 Japan 9846
 Philippines 10842
 USSR 3125
 vegetables
 Afghanistan 6853
 India 1603
Vigna unguiculata 10795
 Egypt 650
 watermelons, Hawaii 3866
- Aphis grossulariae***, gooseberries, USSR 10677
- Aphis idaei***
 biology, behaviour 9656
 plant viruses, transmission 2706
 raspberries
 German Federal Republic 2706, 9656
 USSR 10675
 small fruits, Switzerland 5701
- Aphis intybi***
 biology 6990
 distribution
 Iraq 6990
 Jordan 5392
Spartium junceum, Iraq 6990
- Aphis kachkoulia***
Ficus, Iran 10663
 taxonomy, new species 10663
- Aphis nasturtii***
 control, insecticides 702
 German Democratic Republic 11123
 monitoring, traps 11123
 plant pathogens, transmission 702, 3903, 10830
 potatoes
 Switzerland 10830
 USSR 702, 3903
- Aphis nerii***
 biology, phenology 4676
Nerium oleander 10976
 physiology, excretion 10976
 plant pathogens, transmission 7790
 predators 247
 sorghum, Venezuela 4676
Vicia faba, Syria 7790
- Aphis paraverbasii***
Buddleja, India 3957
 morphology 3957
- Aphis pomi***
 apples
 Bulgaria 6818
 India 1561
 Ontario 9690
 Switzerland 2742
 Washington 3792
 biology 3792
 control 3792
 biological control 9690
 insecticides 2690, 2742
 microbial pesticides 3125
 fruits, German Democratic Republic 2690
 genetics 1129
 natural enemies 1561
 pathogens 3116
 predators 6818
 USSR 3116, 3125
- Aphis pulegii***
Mentha, Portugal 9511
 taxonomy 9511
- Aphis punicae***
 biology 6844
 food plants, Iraq 6844
 genetics, chromosomes 5347
- Aphis ruborum***, small fruits, Switzerland 5701
- Aphis rumicis***
 parasitoids 4921
 pollution, effects 5809
Rumex obtusifolius 5809
- Aphis schneideri***, currants, Finland 9486
- Aphis spiraeicola***
 apples, damage 5733
 biology, phenology 574, 4676
Citrus
 Egypt 574
 Israel 7143
 Spain 8639
 USSR 215
 clementines, Spain 9717
 control, biological control 215
 distribution, Egypt 553
 ecology, population dynamics 8639, 9717
Eupatorium odoratum, India 336, 8432
 fruit trees, Egypt 553
 genetics, chromosomes 5347
 insecticides, pathogenicity 1948
 monitoring, traps 4676, 8639, 9717
 morphology 553

- Aphis spiraecola** cont.
pathogens 7143
plant pathogens, transmission 6852
predators 1307, 8432
sorghum, Venezuela 4676
- Aphis umbrellae**, distribution, China 1181
- Aphis varians**
biology, behaviour 3614
ecology, population dynamics 8285
Epilobium angustifolium
Colorado 8285
Washington 3614
Formica, interactions 8285
predators 3614
- Aphodiidae**, biology, behaviour 1368
- Aphodiplosis triangularis**
cocoa, plantations, Costa Rica 3946
monitoring, traps 3946
plant oils, attractants 3946
- Aphodius**
Afrotropical Region 10228
Korea Republic 18, 8207
taxonomy 18, 1184, 8207, 10228
Turkey 1184
- Aphodius contaminatus**
cattle dung, Spain 1359
ecology, population dynamics 1359
- Aphodius dellacasai**, biology, phenology 1211
- Aphodius distinctus**
biology, phenology 1211
rabbit droppings, Spain 1211
- Aphodius fimetarius**
cattle dung, Spain 1359
ecology, population dynamics 1359
- Aphodius granarius**
cattle dung, Spain 1359
ecology, population dynamics 1359
- Aphodius haroldianus**, morphology, compound eyes 9177
- Aphodius ibericus**
biology, phenology 1211
rabbit droppings, Spain 1211
- Aphodius sphaelatus**
cattle dung, Spain 1359
ecology, population dynamics 1359
- Apholate** (2,2,4,4,6,6-hexakis(1-aziridinyl)-2,2,4,4,6,6-hexahydro-1,3,5,2,4,6-triazatrisphosphorine)
toxicity, *Odoiporus longicollis* 6389
- Aphthona**, *Euphorbia esula*, China 4582
- Aphycomorpha aspidioti**, taxonomy, to *Zelaphycus* 2124
- Aphytis**
apples, orchards, India 8601
Citrus, orchards, Cuba 9712
control, *Quadraspidiotus perniciosus* 8601
hosts
Aonidiella aurantii 4779
Diaspididae 9712
Hemiberlesia lataniae 9662
oranges, orchards, South Africa 4779
vineyards, Taiwan 9662
- Aphytis chrysomphali**
China 4494
hosts, *Aulacaspis rosae* 4494
- Aphytis fiorinae**
hosts, *Fiorinia theae* 3952
taxonomy, new species 3952
tea, plantations, India 3952
- Aphytis holoxanthus**
Citrus, orchards, South Africa 3812
control, *Chrysomphalus aonidum* 3812
distribution, Cuba 9724
hosts, *Chrysomphalus aonidum* 9724
lemons, orchards 9724
- Aphytis lingnanensis**
control, *Aonidiella aurantii* 3815
South Africa 3815
- Aphytis melinus**
Citrus, orchards, California 2762
control, *Aonidiella aurantii* 3815
insecticides, resistance 2762
South Africa 3815
- Aphytis proclia**
biology, phenology 2751
hosts, *Pseudaulacaspis pentagona* 2751
peaches, orchards, Italy 2751
- Aphytis proclia group**
apples, orchards, India 8601
- Aphytis proclia group** cont.
avocados, orchards, Queensland 7743
control
Hemiberlesia lataniae 7743
Quadraspidiotus perniciosus 8601
fungicides, toxicity 8387
hosts, *Quadraspidiotus perniciosus* 8387, 11433
India 11433
- Aphytis yanonensis**
biology
behaviour 8365
dispersal 221
Citrus, orchards, Japan 9703
control, *Unaspis yanonensis* 9703
hosts
Coccoidea 8365
Unaspis yanonensis 221, 11665
mandarins, orchards, Japan 11665
oviposition attractants 8365
- Apidae**
biology, environmental factors 6432
Egypt 194
Israel, books 1173
Mesostigmata, interactions 2094
mites, interactions 194
parasitoids 6553
taxonomy, larvae, catalogues 8195
venoms, toxicity, *Manduca sexta* 1988
- Apina callisto**, food plants, Australian Capital Territory 8421
- Apines bisignata**
India 8392
prey, *Epiricania melanoleuca* 8392
- Apion**
control, insecticides 481
lucerne, Poland 4696
parasitoids 4041
Salix, Europe 4041
Trifolium pratense, German Democratic Republic 481
- Apion antiquum**, *Emex australis*, South Africa 3608
- Apion apricans**
parasitoids 8543
Trifolium pratense
Poland 8543
resistance 7700
- Apion arrogans**
legumes, Syria 5804
plant pathogens, transmission 5804
- Apion coxale**, taxonomy, synonyms, of *Apion fulvipes* 15
- Apion dichroum**, taxonomy, synonyms, of *Apion fulvipes* 15
- Apion filirostre**, lucerne, Poland 4696
- Apion flavipes** (see *A. fulvipes*)
- Apion fulvipes**
biology 4704
control 8545
taxonomy, synonyms 15
Trifolium repens, Poland 4704, 8545
- Apion lativentre**
control, *Sesbania punicea*, evaluation 1394
South Africa 1394
- Apion lederi**, taxonomy, synonyms, of *Apion fulvipes* 15
- Apion minutissimum**, *Thymus*, Italy 11523
- Apion pomonae**, *Vicia sativa*, UK 1529
- Apion rostrum**, *Baptisia leucantha*, Illinois 4595
- Apion tenue**, lucerne, Poland 4696
- Apion virens**
biology 4703
lucerne, Poland 4696
Trifolium repens, Poland 4703
- Apionidae**
biogeography 9343, 11387
distribution
North Dakota 11393
Poland 6465
ectoparasites 3514
Italy 9343, 11387
Ivory Coast 3514, 4465
legumes, America 157
parasitoids 4465
taxonomy 3246
- Apis**
ectoparasites 1242, 6574
Florida 10474
- Apis** cont.
insecticides, effects 10989
morphology, wings 7316
North America 6574
- Apis cerana**
China 8331, 9472
ectoparasites 1257, 6587
Galleria mellonella, interactions 8331, 9472
parasitoids 6553
- Apis cerana indica**
ectoparasites 3493
India 2705, 3493
insecticides, effects 7174
strawberries, pollination 2705
- Apis cerana japonica**, *Achroia innotata*, interactions 1286
- Apis dorsata**
ectoparasites 10450
Thailand 10450
- Apis florea**
crops, pollination 5438
ectoparasites 1251
India 1251, 1571, 5438
insecticides, effects 1571
ketones, repellents 5438
Ziziphus mauritiana, pollination 1571
- Apis mellifera**
acaricides
effects 911, 1260, 6523
toxicity 1249
Albania 259
Australia 871
biochemistry 4464
biology, books 6220
Brazil 9780
China 4533
conferences 2104
Costa Rica 1273
Cucurbita pepo, pollination 8691, 9780
Drosophila flavohirta, interactions 2992
ectoparasites 911, 1238, 1240-1241, 1244, 1248-1250, 1252-1253, 1258-1261, 1267-1272, 1274, 1324, 1327, 2485, 2507, 3536, 3548, 4464, 4466, 4475, 4490, 4533, 5441-5442, 6524, 6528, 6575-6576, 6587, 7287, 7490-7495, 7497-7499, 7517, 7524, 8343, 9431, 10431-10432, 10473-10474, 10478-10479, 11271, 11454, 11474
control, acaricides 7496
effects 4528
fenoxycarb, toxicity 5723
Florida 7491
fungi, interactions 4132
Galleria mellonella, interactions 1286
genetics 11454
German Federal Republic 12004
Guatemala 2485
Hungary 4461
Illinois 1270
insecticides
effects 962, 2533-2534, 3751, 6769, 7494, 7540, 11199, 11269
pathogenicity 11076
residues 962
toxicity 4461, 6200, 11998
Israel 1255-1256
Italy 962, 3536, 7524
Korea Republic 1253
lucerne, fields, California 6769
Maine 10430
Mexico 1269, 7499
Minnesota 7497
natural enemies 259, 1264
North America 11454
North Carolina 10431
orchards, Switzerland 5723
Oregon 1267, 10473
pathogens 871, 10478, 11078
Pennsylvania 6575
pesticides
effects 3585, 8147, 12004
residues 11210
physiology, proteins 3548
Poland 11474
predators 3508, 5463, 10430, 10475
South East Asia 7517

Apis mellifera cont.
Switzerland 2507, 3751, 5699
Thailand 6576, 9431
UK 5463, 7540
venoms, toxicity, *Manduca sexta* 1988
Washington 4490
Apis mellifera capensis, ectoparasites 10429
Apis mellifera carnica
ectoparasites 238, 6586, 10429
insecticides, effects 2435
physiology, senses 9235
Apistan (see Fluvalinate)
Apitol (see 2,4-Dimethyl-N-(3-methyl-2(3*H*)-thiazolylidene)benzenamine; 2,4-Dimethyl-N-(3-methyl-2(3*H*)-thiazolylidene) benzenamine)
Apium, *Liriomyza trifolii*, resistance 8665
Apium chilense, *Liriomyza trifolii*, resistance 8665
Apium graveolens (see Celery)
Apium nodiflorum, *Liriomyza trifolii*, resistance 8665
Apioneura juniperi, *Juniperus sabina*, Sweden 11804
Apioneura lentisci
biology, environmental factors 6668
Israel 6668
Pistacia lentiscus, galls 6668
Aplosonyx ancora
Alocasia macrorrhiza, Vietnam 5076
biology 5076
Aplosonyx orientalis
biology 5076
Cissus modeccoides, Vietnam 5076
Apocheima pilosaria
Betula pendula 5931
secondary metabolites, effects 5931
Apocrita
evolution 4280
morphology 4280
taxonomy, keys 1010
Apogonia cupreoviridis, nurseries, China 1873
Apoidea
Astigmata, interactions 1243
carrots, pollination 6913
collections 9140
grasslands, German Federal Republic 2676
Israel 6993
mites, interactions 7515
Ophrys, pollination 6992
parasitoids 6531
plants, pollination 6993
Apolosonyx chalybeus, *Alocasia esculenta*, India 2879
Apopetes spectrum
morphology 1825
Spartium junceum 1825
Aporia crataegi
ecology 1823
distribution 5020
habitats, Spain 1823
insecticides, toxicity 3131
USSR 3131
woodlands, Spain 5020
Aporrectodea caliginosa, insecticides, residues 11191
Appendicia truncata
hosts, *Cerapteryx graminis* 1520
Netherlands 1520
Applaud (see Buprofezin)
Apples
Acari
Belgium 10706
damage 2694
Aculus schlechtendali
damage 10708
Italy 2734
Netherlands 8614
Poland 3800
Adoxophyes orana
China 2731, 4740
Switzerland 3751, 5723, 10712
Agalope hyalina, India 11639
Anthonomus pomorum, Poland 8611
Aphididae
damage 5733
Japan 5492
Washington 3792
Apples cont.
Aphis, Egypt 553
Aphis pomi
Bulgaria 6818
India 1561
Ontario 9690
Aphis spiraeicola, Egypt 574
Archips fuscocupreanus, Japan 3797
Archips podanus, USSR 2725
Archips rosanus, Italy 556
arthropod pests 1537, 9126
Belgium 10693
Brazil 2733
British Columbia 5732
control 5728
integrated control 3799, 6816, 8596
Czechoslovakia 11649
damage 2738
ecology 9688
German Federal Republic 3799
Hungary 8596
Italy 5728, 11635, 11640
Massachusetts 8617
monitoring 542
natural enemies 2742
Nova Scotia 10701
Ontario 8586
Pennsylvania 8585
Quebec 8612
Switzerland 8616
USA 9688
varietal susceptibility 542, 1564
arthropods
German Democratic Republic 2740
Switzerland 2742
Bactrocera, New South Wales 9644
Callisto denticulella, Poland 3752
Caliteara horsfieldii 7732
Campylomma verbasci
British Columbia 8587, 8602
economic thresholds 8590
Ceratitis capitata 4423
Chymomyza amoena, USA 3786, 10711
Cicadellidae, Illinois 11604
Coccoidea, Europe 2695
commodities
Cydia pomonella 1901, 11894
fumigants
effects 1901, 7113
residues 7992
pesticides, residues 10045
Platynota idaeusalis, damage 3075
Quadraspidotus perniciosus 11048
Cossus cossus, Italy 557
cultivation, conferences 9126
Cydia, Switzerland 7727
Cydia lobarzewskii
Europe 5737
Switzerland 8581
Cydia molesta 7734
China 5729
Cydia pomonella 3971, 4743-4744, 4758, 11651
Belgium 10692
California 9680
Czechoslovakia 3788, 10710, 11648
damage 8547, 8584
Finland 9486
India 11647
Iran 554
Iraq 5721
Poland 8582-8583, 8610
South Australia 4738
Switzerland 3798, 4757
USSR 544-547, 558, 2730, 2743
Washington 555, 9684
Dasineura mali, Hungary 4739
Diaspididae, Israel 488
diets, *Cydia molesta* 11407
Drosophila, Netherlands 9673
Drosophila subobscura 10698
Dysaphis pyri, Iraq 5736
Enarmonia formosana, USSR 551
Epiphyas postvittana, New Zealand 6814, 10700
Eriosoma lanigerum 10391
India 4510, 6812
varietal susceptibility 3783
Apples cont.
extracts, attractants, *Cyzenis albicans* 1851
Gracillariidae, Connecticut 10705
habitats
Cyzenis albicans 1851
Paracheyletia hortensis, USSR 12017
predatory mites, Ontario 4753
Hishimonus sellatus, China 11657
Hoplocampa testudinea, Poland 4759
Hyphantria cunea, USSR 3793
insect pests
control, insecticides 4746
Hungary 6776
Indiana 4746
pathogens 6776
insecticides
deposition 4752
effects 7730
residues 3442, 10697
Leptophyes punctatissima, UK 9984
Leucoptera malifoliella
German Democratic Republic 4760
Iran 3749
Spain 8598
Lygocoris communis, economic thresholds 8588
Lygus lineolaris, economic thresholds 11646
Lyonetia speculella, West Virginia 9689
Malacosoma americanum, New York 4742
mites
Hungary 8595
Massachusetts 10704
Netherlands 10709
Ontario 4753
Operophtera brumata 1851
Canada 9018
orchards
Amblyseius andersoni, Italy 2735
Aphelinus mali, India 6812
Atractotomus mali, Bulgaria 6818
beneficial arthropods
Brazil 2733
India 1561, 8601
Massachusetts 8617
USSR 5738
Chrysoperla carnea, Ontario 2509, 9690
Cicadellidae, German Federal Republic 3785
Cirrospilus vittatus, German Democratic Republic 2740
Coccinellidae
China 2732
India 6810
Encarsia perniciosi, India 4737
Harmonia dimidiata, India 4510
Hymenoptera, Connecticut 10705
Lathrolestes marginatus, Poland 4759
Malacocoris, Switzerland 8616
Metaseiulus occidentalis, China 7735
Meteorus, India 11639
Panorpa communis, USSR 3793
parasitoids
Netherlands 9673
USSR 550, 2743
Phytoseiidae
Italy 6811
Switzerland 3789
Pnigalio flavipes, Washington 9687
predatory arthropods
China 8593
Hungary 8594
Indiana 4746
Italy 5728, 5735
Netherlands 10709
predatory mites
Austria 3796
Hungary 8595
Israel 4747
Italy 2734
Massachusetts 10704
Ontario 4750, 8586
Oregon 9685
Quebec 8612

Apples cont.

orchards cont.

- Sympiesis sericeicornis*, Switzerland 2736
Trichogramma
 German Federal Republic 4736
 USSR 545
Trichogramma dendrolimi, China 2731, 4740
Trichogramma evanescens, USSR 544
Trichogramma platneri, California 9680
Typhlodromus pyri
 Czechoslovakia 3787
 New Zealand 552, 6817
 Nova Scotia 2738, 10701
Osmia cornifrons, pollination 7733
Panonychus ulmi 5731
 Brazil 4748, 10696
 Czechoslovakia 11650
 damage 2744, 6811, 8607-8608
 economic thresholds 2744
 Georgia 6991
 Italy 5735
 Korea Republic 8589
 New York 2739, 4754, 5730
 New Zealand 552, 6817
 Nova Scotia 4745
 Yugoslavia 11642
 pest control 1559
 German Federal Republic 6809
 Hungary 8591
 Italy 6804
 USA 1560, 10703
 USSR 8599
 pest resistance 2110
Phlyctinus callosus, South Africa 495, 2724, 8615
Phyllonorycter, Italy 3776
Phyllonorycter blancardella
 Ontario 8603, 10699
 USA 10702
Phyllonorycter cydoniella 541
 Switzerland 2736
Phyllonorycter elmaella, Washington 9687
Platynota, USA 3791
Platynota idaeusalis
 damage 11641
 Pennsylvania 3795, 6813, 9686
 USA 6815, 8604
 pollen, diets, *Neoseiulus fallacis* 4497, 8600
Quadraspidiotus ostreaeformis, New Zealand 5719
Quadraspidiotus perniciosus, India 4737, 6810, 8601
 research, Nova Scotia, reports 10218
Rhagoletis
 Colorado 4731
 Michigan 11616
Rhagoletis pomonella 548, 4741, 4756, 6460
 America 8597
 Colorado 4755
 Illinois 543
 Massachusetts 6805
 Michigan 4751
 New York 8606
 North America 1538
 Oregon 11645
 resistance 1563, 4746
 USA 3458, 5727, 5734
 Utah 7738
 Sphecidae, Chile 1340
Stephanitis pyri, Iraq 7731
Stigmella malella, German Democratic Republic 559
 Tetranychidae 10688
 China 7735
 damage 8609
 Hungary 8594
 New York 2737
 Ontario 4750
 Switzerland 3789
 USSR 5738, 11643
Tetranychus urticae 9203
 Japan 3790
Thrips flavus
 damage 11644

Apples cont.*Thrips flavus* cont.

- economic thresholds 11644
 Thysanoptera, India 3784
 Tortricidae 8546
 Italy 536
 North America 8605
 Switzerland 8613
Typhlocyba pomaria, damage 1562
Vespa crabro 5463
Yponomeuta malinellus
 USSR 550
 Washington 7736
Zyginella pulchra, Iran 3778
Apricots (*Prunus armeniaca*)
Anarsia lineatella, Iraq 4705
 arthropod pests, Italy 11635-11637
 books 11244
Cydia pomonella, damage 8547
Hyalesthes, Turkey 9645
 insect pests, India 11654
 orchards, *Amblyseius victoriensis*, New South Wales 8631
 pest control 11244
Phyllonorycter, Italy 3776
 wood, *Psammotermes hybostoma*, damage 3067
Zyginella pulchra, Iran 3778
Apriona germari
 China 9397
 control
 insecticides 9678
 microbial pesticides 1870
 forest trees, China 1870
 mulberries, China 9678
 parasitoids 9397
Apriona rugicollis (see *A. germari*)
Aproaerema modicella
 biology, phenology 2847
 control
 insecticides 665, 6906, 9814
 integrated control 666
 groundnuts, India 665-666, 668, 2847, 6906, 6908, 8719-8720, 8723, 9814
 natural enemies 8723
 sex determination 8708
Aprostocetus
 biology 9397
 China 9397
 hosts
Apriona germari 9397
Lycaena hyllus 10520
 Minnesota 10520
 morphology 9397
Aprostocetus bruchophagi
 Argentina 3831
 hosts, *Bruchophagus platypterus* 3831
Aprostocetus bruzzonis
 hosts, *Cassida nebulosa* 2856
 sugarbeet, fields, USSR 2856
Aprostocetus daira
 biology 5690
 hosts, *Megachile rotundata* 5690
 lucerne, fields, Chile 5690
Aprostocetus diplosidis
 biology, phenology 4677
 hosts, *Contarinia sorghicola* 1493, 4677
 morphology 4677
 sorghum
 fields
 Argentina 4677
 Puerto Rico 1493
Aprostocetus neglectus
 hosts, *Chilocorus kuwanae* 6015
 USSR 6015
Aprostocetus strobilanae
 hosts, *Kaltenbachiola strobili* 5999
 USSR 5999
Apsylla cistellata, mangoes, Bangladesh 1594
Apterona crenulella
 Italy 3502
 parasitoids 3502
Apterothrips secticornis
 ecology, population dynamics 462
Erigeron glaucus, California 462
Platyptilia williamsii, interactions 462
Aptus mirmicoides, ecology, energetics 3403

Aquatic communities, pesticides, residues 6201**Aquatic environment, insecticides, effects** 12001**Aquatic insects**

- Australia, catalogues 12031
 biology 7268
 ecology 12031
 insecticides, effects 11190
 taxonomy 8172, 12031
 keys 7268
 UK 9314

Aquatic invertebrates

- biology 7268
 insecticides, detection 5203
 predators 9299
 taxonomy, keys 7268

Aquatic organisms

- insecticides, effects 2016, 2039, 4247, 7194-7195, 7302-7303
 UK, books 7268

Aquatic plants

- insecticides, residues 7920, 8133
 Lepidoptera, German Democratic Republic 4262

Arab countries

- Bembix* 11459
 invertebrates, surveys 11955
 plant protection, conferences 10204
 Sphecinae 231

Arabidopsis thaliana, *Rhopalus tigrinus*, Pennsylvania 335**1-β-Arabinofuranosylcytosine**, effects, *Ceratitis capitata* 12009**Arabis laevigata**, *Pieris virginensis*, Ohio 3631, 10764**Arable land**, arthropods, Netherlands 7271**Araceae**, arthropod pests 9907**Arachis hypogaea** (see Groundnuts)**Arachnida**

- biology 10213
 cotton, fields, Paraguay 7880
 evolution 6275
 morphology 6275
 North America 9156
 taxonomy, conferences 10213
 pathogens 8980
 pheromones 1007
 taxonomy 9156

Arachya menetriesii

- biology, behaviour 7684
 food plants 7684

Aradidae

- distribution, Florida 7444
 forests, Sweden 4998
 taxonomy 11283

Aradus acutus

- distribution, Arkansas 3410
Quercus 3410

Aradus cincticornis

- distribution, Arkansas 3410
Quercus 3410

Aradus cinnamomeus

- control 7905
 insecticides 1784
 fertilizers, effects 1784
 Finland 10246
 morphology 10975
 variation 10246
Pinus sylvestris, Finland 1784, 7905, 10975

Aradus crenaticollis

- ectoparasites 12017
 USSR 12017

Aradus lugubris

- ectoparasites 12017
 USSR 12017

Aradus nemtschinovae

- ectoparasites 12017
 USSR 12017

Aradus robustus, distribution, Arkansas 3410**Aradus truncatus**, distribution, Sweden 4998**Aralia hispida**, Hymenoptera, pollination 6450**Aranea diadegma**

- German Federal Republic 6613
 pathogens, isolation 6613

Araneae

- anaesthesia 10379

- Araneae** *cont.*
 apples
 orchards
 India 1561
 Switzerland 2742
 Australia 5262
 barley, fields, German Federal Republic 2623
 biology 7268
 behaviour 4508, 6556, 8849
 dispersal 4370
 phenology 162
 survival 9950
 China 3163, 3697
Cicer arietinum, fields, India 2851
 climbers
 Berlin 774
 German Federal Republic 3966
 cotton, fields, Texas 4925
 deserts, California 5446
 distribution
 Arkansas 5454
 Ecuador 11455
 Poland 8294
 Switzerland 5499
 ecology 3889
 distribution 8510
 environmental factors 4693, 11592
 habitats 3966
 population dynamics 4681, 5446
 evolution 6275
 fields
 Finland 10577
 German Federal Republic 680
 Netherlands 6526
 Florida 8712
 forest trees, New Zealand 8849
 forests
 Costa Rica 9950
 Finland 4026
 German Federal Republic 4203
 habitats, Maine 7025-7026
 Maine 8905, 9949
 North America 4025
 USSR 1802
 France 4527, 5465
 fungicides, effects 2038
 grassland management, indicator species 5682
 grasslands, UK 5682
 groundnuts
 fields
 India 8722
 Texas 3889
 habitats
 Florida 8379
 Mississippi 8376
 heavy metals, pollutants 9100
 India 5525, 7514, 8349
 indicator species 4203
 insecticides
 effects 680, 1802, 5820
 toxicity 3163
 land use, effects 4527
 maize, fields, Texas 9566
 meadows
 German Federal Republic 468, 4681
 Switzerland 463, 1516
 molluscicides, effects 463
 monitoring, traps 4681, 6526
 morphology 6275, 8378
 Netherlands 9100
 Nevada 7332
 old fields, Pennsylvania 11592
 Panama 6554
 pastures, Belgium 4693
 pesticides, effects 2623, 6526
 physiology
 cardiovascular system 1306
 chemical composition 6369
 reproductive organs 4330
Pinus radiata, habitats, California 8906
 pollutants, toxicity 4203
 predators 374, 1735, 3889, 4472, 7514, 8349, 8849, 10457
 prey
 Anticarsia gemmatalis 8712
 Aphis pomi 1561
 apples, arthropod pests 2742
- Araneae** *cont.*
 prey *cont.*
 arthropods 3889, 6554
 Choristoneura fumiferana 7025-7026, 8905, 9949
 Cicadellidae 10627
 Coleophora parthenica 11511
 cotton, insect pests 8777
 Delphacidae 1463
 Diatraea grandiosella 9566
 Drosophila melanogaster 6556
 Hemiptera 8514
 insect pests 4508
 Microtermes unicolor 5525
 Nilaparvata lugens 3163, 3697
 Noctuidae 9502
 Occidryas editha 7332
 Omiodes indicata 1659
 Psallus seriatus 4925
 Rhopalosiphum padi 10577
 rice, arthropod pests 3693
 Prodioplosis platani, interactions 1868
 rice
 fields
 China 4660, 8510
 India 8514
 Indonesia 1463
 Malaysia 10627
 Philippines 3701
 roadside plants, habitats, Mississippi 9502
 sampling 1206
 Scorpiones, interactions 5446
 South Africa 162
 soyabeans
 fields
 Brazil 5820
 China 1659
 sugarbeet, fields, German Federal Republic 4873
 Switzerland 374
 taxonomy 5262, 5465, 5499, 8378
 books 2101
 keys 4025, 5477
 UK 5477
 urban areas, Italy 2351
 webs, stickiness, measurement 10371
 wheat, fields 2038
Araneida, forests, New Zealand 7018
Araneus
 India 5494
 prey, *Cletus signatus* 5494
Araneus diadematus
 Austria 3562
 forests, Hungary 8851
 Frontinellina frutetorum, interactions 3562
 grasslands, Switzerland 1517
 physiology, webs 260
 prey
 Dendrolimus pini 8851
 insects 1517
Araneus pustulosus
 Araneae, interactions 11435
 biology, behaviour 11435
Araneus quadratus
 grasslands, Switzerland 1517
 prey, insects 1517
Araneus viriditas, Araneae, interactions 11435
Araucaraceae, *Lymantria dispar* 8866
Araucaria, wood, Teredinidae, Brazil 11890
Araucaria araucana, *Silviella*, Chile 2146
Araucaria bidwillii, *Pseudanaphothrips araucariae*, Queensland 9991
Araucaria heterophylla, *Pseudanaphothrips araucariae*, Hawaii 9991
Arawa novella, Gramineae, New Zealand 8526
Arboreal M (*see* Fenson)
Archanaera geminipuncta
 biology, phenology 9520
 German Federal Republic 4682
 Giraudiella inclusa, interactions 10540
Phragmites australis
 galls 4682
 German Federal Republic 9520, 10540
- Archenomus bicolor**
 hosts, *Diaspidiotus prunorum* 493
 orchards, Iran 493
Archenomus orientalis
 biology, phenology 2751
 hosts, *Pseudaulacaspis pentagona* 2751
 peaches, orchards, Italy 2751
Archersonia aleyrodalis, hosts, *Selenaspis articulatus* 9715
Archidispus crassiradix
 Carabidae, interactions 9407
 Japan 9407
 taxonomy, new species 9407
Archidispus ohtanii
 Carabidae, interactions 9407
 Japan 9407
 taxonomy, new species 9407
Archidispus proximus
 Carabidae, interactions 9407
 Japan 9407
 taxonomy, new species 9407
Archidispus riparius
 Carabidae, interactions 9407
 Japan 9407
 taxonomy, new species 9407
Archidispus similis
 Carabidae, interactions 9407
 Japan 9407
 taxonomy, new species 9407
Archips, pheromones 10274
Archips argyrosipilus
 biology 4017
Taxodium distichum, Louisiana 4017
Archips crataeganus
 control, insecticides 810, 1768
Quercus, USSR 810, 1768
Archips fuscocupreanus
 apples, Japan 3797
 control, insecticides 3797
Archips issikii, distribution, Korea Republic 10359
Archips podanus
 biology 536
 control, insecticides 536
 ecology 2725
 food plants, USSR 2725
 fruit trees, Italy 536
Archips rosanus
 biology 527, 536
 cherries, USSR 6821-6822
Citrus, Italy 2765
 control 527
 insecticides 536
 ecology, population dynamics 2721
 food plants, Italy 556
 fruit trees
 Italy 536
 USSR 532, 2721
 fruits, USSR 527
 monitoring, traps 556, 2765, 6821-6822
 morphology 527
 parasitoids 556, 2765
 sampling 532
Archips xylosteanus
 biology 818
 cherries, USSR 6821-6822
 monitoring, traps 6821-6822
Quercus ilex, Spain 818
Archostemata
 Australia, catalogues 12032
 ecology 12032
 taxonomy 12032
 keys 10198
 USSR 10198
Archytas incertus
 hosts, *Spodoptera frugiperda* 8476, 8478
 maize, fields, Brazil 8476, 8478
Archytas marmoratus
 hosts, *Spodoptera frugiperda* 8476
 maize, fields, Brazil 8476
Arcofacies maculatipennis
 bamboos, China 2585
 taxonomy, new species 2585
Arcte coerula
 morphology, colour 5330
 physiology, group effect 5330
Arctia caja, biology, phenotypes 3364
Arctic Ocean, fauna, insecticides, residues 8128

Arctiidae

- Africa 2132
- Brazil 6525
- distribution, Spain 6218
- food plants 6424
- Italy 9888
- monitoring, traps 9888
- morphology 6274
- pheromones 6424
- physiology, sound production 6274
- predators 3556, 6525
- Saudi Arabia 144
- semiochemicals, effects 6424
- taxonomy 144, 2132
- Texas 3556

Arctium lappa, *Agapanthia dahli*, Hungary 4910**Arctium minus**

- habitats
- Agathis malvacearum*, USA 3619
- Bracon mellitor*, Massachusetts 3619
- Hyssopus thymus*, Ohio 3619
- Metzneria lappella*, USA 3619
- Tephritidae 6418
- Tephritis bardanae*, UK 6666

Arctophyto borealis

- hosts, *Typocerus serraticornis* 3630
- USA 3630

Arctotheca calendula

- Apina callisto*, Australian Capital Territory 8421
- Junonia villida*, New South Wales 2559

Arctotus arctotoides, *Rhytirrhinus inaequalis*, South Africa 4575**Arctoptera fusca**, cell cultures 1214**Areca catechu** (see *Arecanuts*)**Arecanuts** (*Areca catechu*)

- Cryptozona semirugata*, India 10496

Arge

- distribution, America 5975
- food plants 5975
- taxonomy 5975

Arge ochropus

- parasitoids 4516
- Rosa*, Italy 4516

Arge rosae auct. (see *A. ochropus*)**Argentina**

- Acanonicus hahni* 7392
- Agrotis ipsilon* 4911
- Agrotis malefida* 4911
- Argentinorhynchus* 6638
- Auchenorrhyncha* 6890
- biological control 5160
- Bruchophagus platyperus*, parasitoids 3831
- Ceratitis capitata* 11614
- Cicadellidae 6764
- Contarinia sorghicola*, parasitoids 4677
- Cynipoidea, hosts 270
- Cynthia carye* 2151
- Dichroplus* 4436
- Dichroplus pratensis* 1212
- Dictyoptera 11246
- Dysdercus albofasciatus* 3929
- natural enemies 2908
- Edessa rufomarginata* 321
- Flaveria bidentis*, insects 7555
- Formicidae 10425
- Metopolophium dirhodum* 4622
- Neohydronomus* 7559
- Pedrocortesella montis* 11833
- pest control, bibliographies 2079
- Plagioderia erythroptera* 5946
- rivers, pesticide residues 10150
- Scarabaeinae 7430
- Schistocerca cancellata* 11415
- soyabeans, arthropods 4859
- Trimerotropis pallidipennis* 1141
- Varroa* 1328

Argentinorhynchus

- Pistia stratiotes*, America 6638
- taxonomy 6638, 7552

Argentinorhynchus bennetti

- Pistia stratiotes*, America 6638
- taxonomy, new species 6638

Argentinorhynchus breyeri

- Pistia stratiotes*, America 6638
- taxonomy 6638

Argentinorhynchus breyeri group, taxonomy 7552**Argentinorhynchus kuscheli**

- Nymphaea*, Bolivia 7552
- taxonomy, new species 7552

Argentinorhynchus minimus

- Pistia stratiotes*, Venezuela 7552
- taxonomy, new species 7552

Argidae

- Betula pubescens*, Finland 10969
- biology 7589
- cereals, Poland 7589
- ecology, population dynamics 10969

Arginine, kairomones, *Ascogaster reticulata* 234**Arginine vasotocin**, effects, *Limax maximus* 10498**Argiopidae**

- biology, phenology 162
- ecology 3889
- groundnuts, fields, Texas 3889
- morphology 8378
- prey, arthropods 3889
- South Africa 162
- taxonomy 8378

Argiopinae, China 3535**Argochrysis armilla**

- biology, behaviour 2496
- California 2496
- hosts, *Ammophila dysmica* 2496

Argogrytes, morphology, sense organs 6273**Argopistes coccinelliformis**

- biology
- behaviour 8803
- development 8805
- diapause 9288
- phenology 8802
- Japan 9288
- ornamental plants, Japan 8802-8803
- Osmanthus* 8805

Argyope

- predators 3258
- prey, *Oligonychus indicus* 4675
- sorghum, India 4675

Argyope aetheroides, taxonomy, new species 3535**Argyope argentata**

- biology, behaviour 4535
- Panama 4535

Argyope aurantia

- Florida 8354
- prey, *Ceraeochrysa cubana* 8354

Argyope bruennichi

- grasslands, Switzerland 1517
- prey, insects 1517

Argyope brunni, distribution, German

- Democratic Republic 6590

Argyope pulchella

- biology, nutrition 8349
- India 8349
- predators 8349

Argyope pulchelloides, taxonomy, new species 3535**Argyope savignyi**

- biology, survival 9950
- forests, Costa Rica 9950

Argyresthia conjugella

- biology 530
- control 530
- fruits, USSR 530

Argyresthia glaucinella

- Betula*, UK 9967
- Synanthedon scoliaeformis*, differentiation 9967

Argyresthia reticulata

- biology 4999
- distribution, Morocco 4999
- Juniperus thurifera* 4999

Argyresthia thuiella

- biology, environmental factors 7067
- Thuja occidentalis* 7067

Argyodes trigonum

- Frontinella pyramitella*, interactions 9413
- New York 9413

Argyrogramma signata

- distribution, maps 6458
- food plants 6458

Argyrotaenia, pheromones 10274

- Argyrotaenia citrana*, parasitoids 1316

Argyrotaenia ljunghiana

- biology 536
- control, insecticides 536
- fruit trees, Italy 536

Argyrotaenia velutinana

- apples
- Massachusetts 8617
- varietal susceptibility 1564
- control, integrated control 8617
- pheromones 8241
- physiology
- enzymes 2196
- pheromones 7344

Arhar (see *Cajanus cajan*)**Arhopalus rusticus**

- biology 7020
- Pinus*, Spain 7020
- rearing techniques 7020

Arhopalus syriacus

- biology 7020
- Pinus*, Spain 7020
- rearing techniques 7020

Arhopalus tristis

- biology 7020
- Pinus*, Spain 7020
- rearing techniques 7020

Ariadne merione, pathogens 9007**Arianta arbutorum**

- Austria 7546
- biology 5544
- metals, assimilation 7546
- Sweden 5544

Arichanna melanaria fraterna

- biology 1761
- Rhododendron kiusianum*, Japan 1761

Arid lands, *Eleodes*, Wyoming 8277**Arilus cristatus**

- prey, *Datana integerrima* 2717
- walnuts, orchards, Mexico 2717

Ariolimax columbianus, physiology, secretions 319**Arion**

- biology 5778
- control, molluscicides 6627
- Drosophila tripunctata*, interactions 5778
- field crops, Belgium 6627
- German Federal Republic 6613
- mushrooms, New Jersey 5778
- pathogens, isolation 6613

Arion ater

- biology, environmental factors 301
- cereals, UK 370
- control, molluscicides 705
- heavy metals, accumulation 9483
- physiology, excretory system 7548
- potatoes, UK 705
- wheat, UK 9538
- woodlands, UK 9483

Arion circumscriptus, wheat, UK 9538**Arion distinctus**

- molluscicides, effects 951
- physiology, enzymes 951
- wheat, UK 9538

Arion fasciatus

- cereals, UK 370
- control, molluscicides 356
- ecology, population density 356
- fields, Pennsylvania 356
- monitoring, traps 356
- Trifolium repens*, damage 3745

Arion hortensis

- biology, environmental factors 612
- cereals, UK 370
- control, molluscicides 705
- heavy metals, accumulation 9483
- molluscicides, effects 950
- pastures, New Zealand 474
- physiology, chemical composition 302
- potatoes, UK 705
- soil, compaction, effects 3659
- UK 302, 3659
- woodlands, UK 9483

Arion intermedius

- biology, environmental factors 475
- pastures
- New Zealand 474
- UK 475
- wheat, UK 9538

Arion rufus, morphology 10499

- Arion silvaticus*, wheat, UK 9538

- Arion subfuscus**
forests, Poland 6615
heavy metals, accumulation 9483
predators 9396
UK 9396
wheat, UK 9538
woodlands, UK 9483
- Aristida congesta**, *Hodotermes mossambicus*, South Africa 2670
- Aristida mutabilis**, habitats, *Schistocerca gregaria*, India 3480
- Aristolochia**, *Battus philenor*, USA 10333-10334
- Aristolochia reticulata**, *Battus philenor*, Texas 7409
- Aristolochia serpentaria**, *Battus philenor*, Texas 7409
- Aristolochia triangularis**, Papilionidae 3829
- Aristolochic acid**, effects, Papilionidae 3829
- Aristotelia ivae**
biology, food plants 1390
control, *Baccharis halimifolia* 1390
Florida 1390
Queensland 1390
- Aristotelia serrata**, *Paradoxaphis aristoteliae*, New Zealand 4963
- Armadillidium**, physiology, chemical composition 1125
- Armadillidium vulgare**
bacteria, interactions 10085
physiology
reproduction 10085
sense organs 6348
- Armillaria mellea**
Dendroctonus ponderosae, interactions 5924
Oxyporus, Mexico 10755
- Armillariella mellea** (see *Armillaria mellea*)
- Armitermes euamignathus**, morphology, digestive system 1047
- Aromatic acids**, oviposition deterrents, *Delia radicum* 8675
- Aromatic plants**, pest control 9510
- Aromia moschata**
parasitoids 4516
Salix, Italy 4516
- Arotrophora arcuatalis**, *Banksia*, Western Australia 11778
- Arotrophora canthelias**
Banksia spinulosa, Victoria 9504
control, insecticides 9504
- Arpactophilus**
distribution, Australasia 11
taxonomy 11
- Arrhenodes dispar**
biology, behaviour 9961
forest trees, Costa Rica 9961
- Arrhenophagus**, hosts, *Pseudaulacaspis pentagona* 10736
- Arrhenophagus albitibiae**
Florida 11431
hosts, *Pseudaulacaspis pentagona* 11431
- Arrhenophagus chionaspidis**, hosts, *Pseudaulacaspis pentagona* 10736
- Arrhenophanidae**, phylogeny 5
- Arrhenothrips ramakrishnae**
biology, development 2168-2169
India 2468
physiology, reproductive organs 6353
predators 2468
- Arsenic**, effects, *Dendroctonus pseudotsugae* 3004
- Artemia salina**, genetics, RNA 5348
- Artemisia**, extracts, control, *Cydia pomonella* 1553
- Artemisia absinthium**, extracts, control, Aphididae 9783
- Artemisia carruthii**, *Ophraella*, Texas 11509
- Artemisia herva-alba**, extracts, toxicity, Coleoptera 3148
- Artemisia lavandulacfolia**, *Heterotergum artemisiae*, China 5948
- Artemisia maritima**, oils, effects, *Sitophilus oryzae* 5097
- Artemisia ordosica**, *Adosomus*, China 3627
- Artemisia pallens**
bibliographies 2077
insect pests 2077
- Artemisia sphaerocephala**, *Adosomus*, China 3627
- Artemisia tridentata**
arthropods
ecology 6654
Wyoming 6654
extracts, effects, *Peridroma saucia* 333
litter
arthropods 6654
ecology 6653
Wyoming 6653
- Artemisia vulgaris**, *Chromatomyia horticola*, Hungary 9864
- Arthaldeus pascuellus** (see *Sorhoanus pascuellus*)
- Arthrobotrys**, *Scapteriscus borellii*, interactions 1936
- Arthropod pests**
apples
economic thresholds 549
USSR 549
Austria 9320
biology, environmental factors 3142-3143
checklists 11245
Chile, books 5231
China 11382
control
biological control 1969
reviews 8050
crops
Florida 4166
yield losses, models 924
field crops, Africa, books 1011
forecasting 917
forests, Canada 4047
German Democratic Republic 917
grapes, Austria 6792
laboratories, colonies, Japan 1013
mangoes, Queensland 3827
monitoring 917
natural enemies 11382
nomenclature, UK 1012
oil plants, Korea Republic 1720
pastures, Australia 6759
plants, interactions, books 11254
sampling 4420, 8314
Spain 4569
vegetables, USSR 6226
weeds, interactions, reviews 10518
- Arthropods**
bioassays 5398
biology
behaviour 3377
models 1200
checklists, books 11245
climbers, German Federal Republic 3966
collection 6224
collections 10389
conifers, USA 10015
conservation tillage, effects 8410
control, cultural control 7614
deserts, USSR 9324
ecology 6445
habitats 3966
population dynamics 3398, 9350, 11392
reviews 2332
statistical analysis 5397
food plants, North Carolina 7614
forest trees, UK 7036
forests
Austria 5060
Finland 4026
fungi, interactions 8999
heavy metals, residues 5060
immigration, databases 6467, 6495
meadows, German Federal Republic 468
metals
detoxification 10376
distribution, mapping 10376
monitoring, traps 9361
mortality, analysis 6446
movement, models 5372
nervous system, evolution, reviews 2243
orchards, Switzerland 10660
- Arthropods cont.**
organic wastes, effects, reviews 6445
orientation, models 10345
pathogens 6068
pesticides
nontarget effects, models 7271
toxicity 6145
pheromones, books 2074
physiology
chemical composition 1125
digestive system 7356
immune response 5305
nervous system 2244
reviews 1099
senses 10301
spermatozoa 6068
Picea, Austria 8910
plants
evolution 5546
interactions 11124
evolution 11009
population dynamics, models 6448
populations, analysis, conferences 10210
preservation 4433
Quercus macrocarpa, Kansas 10015
sampling 1206, 10210
senses, conferences 11260
soil
Brazil 1859
mineralization 5407
Spain, identification services 4569
tannins, effects, reviews 4170
taxonomy, reviews 7466
weeds
interactions, reviews 10518
litter, Wyoming 6653
Wyoming 6654
wheat, fields, German Federal Republic 2616
- Artificial light**, entomology, research 7463
- Artipus floridanus**
biology, environmental factors 4777
Citrus 4777
Florida 4777
- Artocarpus chapalasha**, Lygaeidae, India 7741
- Artocarpus integer**, *Colopterus posticus*, Florida 4794
- Artogeia napi** (see *Pieris napi*)
- Artogeia rapae** (see *Pieris rapae*)
- Artona catoxantha**
Malaysia 2701
parasitoids 2497, 2701
tropics 2497
- Arundo donax**
Isodontia mexicana, Europe 2586
Xylocopa pubescens, Israel 10348
- Arytaina robusta**, *Ceanothus velutinus*, Oregon 1865
- Arytainilla barbagalloi**
biology 11515
Genista aetnensis, Italy 11515
taxonomy, new species 11515
- Asaphes**
German Federal Republic 1392
hosts, *Uroleucon*, parasitoids 1392
- Asaphes lucens**
hosts, *Diaeretiella rapae* 5789
kale, fields, USA 5789
- Asaphidion flavipes**, distribution, New Hampshire 10365
- α -Asarone**, mutagenicity, bacteria 7197
- β -Asarone**
insecticidal properties 5082
mutagenicity, bacteria 7197
nontarget effects, rats 7196
- Asarum europaeum**, extracts, effects, *Epilachna varivestis* 2582
- Aschersonia aleyrodis**, control, greenhouse crops, arthropod pests 5862
- Aschersonia duplex**, control, *Metaceronema japonica* 7951
- Aschersonia placenta**, hosts, *Dialeurodes citri* 3103
- Aschitus**
Europe 3515
hosts, Homoptera 3515
taxonomy 3515
USSR 3515

- Ascia monuste orseis*
biology, behaviour 8334
cabbages, Brazil 4823
control, insecticides 4823
parasitoids 8334
- Asclepiadaceae**, *Danaus plexippus*, Europe 6656
- Asclepias**
Danaus gilippus 3337
Danaus plexippus
Bermuda 6502
North America 6664
- Asclepias curassavica**
Danaus plexippus 9495
Queensland 2573
- Asclepias fruticosa**, *Danaus plexippus*, Queensland 2573, 9494
- Asclepias humistrata**, *Danaus plexippus*, Florida 9495
- Asclepias incarnata**, *Danaus plexippus* 9495
- Asclepias syriaca**
Danaus plexippus, USA 331
habitats, *Misumena vatia*, Maine 6564
Papaipema nebris 9549
- Ascogaster**
hosts, *Pachonyx quadridens* 2976
India 2976
- Ascogaster quadridentata**
apples, orchards, USSR 2743
hosts
Cydia funebrana 2728
Cydia pomonella 2743
orchards, USSR 2728
parasitoids 2743
- Ascogaster reticulata**
amino acids, kairimones 234
biology 9901
hosts, *Adoxophyes* 234, 9901
pheromones 9901
tea, habitats 9901
- Ascogaster shawi**
hosts, *Epinotia kasloana* 3921
jojoba, habitats, USA 3921
taxonomy, new species 3921
- Ascorbic acid**
phagostimulants, *Achaea janata* 7411
toxicity, *Spilosoma obliqua* 10114
- Ascosphaera**, *Varroa jacobsoni*, interactions 1262
- Ascosphaera aggregata**
control 480
hosts, *Megachile rotundata* 480
- Ascotis selenaria**
avocados, Israel 4775, 10719
biology, behaviour 4775
control, biological control 10719
insecticides, pathogenicity 10070
monitoring, traps 4775
parasitoids 4774
pathogens 4102
physiology, kairimones 4774
- Ascodes**
control, *Brontispa longissima* 3760
Western Samoa 3760
- Asellus aquaticus**, insecticides, toxicity 2023
- Aseminae**, Taiwan 4395
- Asemum striatum**
biology 7020
Pinus, Spain 7020
rearing techniques 7020
- Ash**, mixtures, control, *Callosobruchus chinensis* 8932
- Ash trees** (see *Fraxinus*)
- Asia**
arthropod pests, maps 6454-6455, 6457-6459
biological control, reviews 3427
botanical insecticides, usage 4228
crops
arthropod pests 3416
pest control 1964
insect pests, maps 6456, 6460
Lantana camara, natural enemies 4603
Orseolia oryzae, natural enemies 450
pest control, information 5148
quarantine, information 5175
rice, pest control 4673
Scolytidae 3230
Tarophagus 3910
- Asia cont.**
Tephritidae 2570
Therioaphis 6261
Thrips palmi 6455
vegetables, pest control, reports 2119
- Asilella**, ecology 4271
- Asilella karafutonis**, prey, insects 4271
- Asilella londti**, prey, insects 4271
- Asilidae**, forests, Czechoslovakia 2097
- Asilinae**, taxonomy 4271
- Asimina**, Lepidoptera, Florida 7566
- Asimina triloba**, *Eurytides marcellus* 3829
- Asiopsocus meridionalis**, *Quercus pyrenaica*, Spain 8830
- Asiracinae**, morphology, reproductive organs 3264
- Asobara tabida**
biology, behaviour 9673
hosts, *Drosophila* 9673
orchards, Netherlands 9673
- Asparagus**
Brachycorynella asparagi
Italy 8664
Washington 1608
Crioceris, Japan 5777
insecticides, residues 1608
Lygus pratensis, German Federal Republic 3839, 10753
microbial pesticides, persistence 5622
Myzus persicae, Michigan 1607
- Asparagus officinalis** (see *Asparagus*)
- Asparagus 1 potyvirus**, vectors, *Myzus persicae* 1607
- Aspartame**, effects, *Helicoverpa zea* 10283
- Aspen** (see *Populus tremula*)
- Aspergilli**, insects, interactions 4132
- Aspergillus**
hosts
arthropods 3096
fruits, insect pests 3113
Lepidoptera 6745
Varroa jacobsoni, interactions 1262
- Aspergillus flavus**
hosts
Bombyx mori 6607
Cossus cadambae 1799
Dysdercus cingulatus 11935
Saccharicoccus sacchari 11938
Pectinophora gossypiella, interactions 5872
- Aspergillus flavus var. columnaris**, hosts, *Pogonomyrmex rugosus* 11946
- Aspergillus flavus var. flavus**, toxins, effects, Noctuidae 354
- Aspergillus flavus var. oryzae**, toxins, effects, Noctuidae 354
- Aspergillus flavus var. parasiticus**, toxins, effects, Noctuidae 354
- Aspergillus flavus var. sojae**, toxins, effects, Noctuidae 354
- Aspergillus fumigatus**, *Lathridius anthracinus*, interactions 4050
- Aspergillus niger**, insecticides, effects 11195
- Aspergillus nomius**, extracts, effects, *Helicoverpa zea* 4182
- Aspergillus parasiticus**, hosts, *Saccharicoccus sacchari* 11938
- Aspergillus wentzii**, hosts, *Pogonomyrmex rugosus* 11946
- Asphodelus microcarpus**, *Capsodes infuscatus* 9129
- Asphondylia**
Arizona 8437-8438
biology 3884
Larrea tridentata, galls 8437-8438
parasitoids 8437
soyabeans, Japan 3884
- Asphondylia aucubae**
Asphondylia baca, differentiation 2697
Aucuba japonica, Japan 2697
biology 2697, 2753
parasitoids 2697
taxonomy, new species 2697
- Asphondylia baca**
Ampelopsis brevipedunculata, Japan 2697
Asphondylia aucubae, differentiation 2697
biology 2697
parasitoids 2697
- Asphondylia boerhaaviae**
ecology, population dynamics 1386
Jamaica 1386
parasitoids 1386
weeds, galls 1386
- Asphondylia ilicicola**
biology 11007
Ilex opaca, Maryland 11007
predators 11007
- Asphondylia ipomoeae**
Convolvulaceae, galls 7567
India 7567
- Asphondylia riveae**
Convolvulaceae, galls 7567
India 2576, 7567
parasitoids 2576
Rivea hypocrateriformis, galls 2576
- Asphondyliidi**, biology 2753
- Aspidiotiphagus** (see *Encarsia*)
- Aspidiotiphagus australiensis**, taxonomy, synonyms, of *Encarsia citrina* 2460
- Aspidiotiphagus citrinus** (see *Aonidiella citrina*)
- Aspidiotiphagus lounsburyi** (see *Encarsia lounsburyi*)
- Aspidiotus**, parasitoids 3499
- Aspidiotus destructor**
biology 4960
phenology 2700
coconuts
India 10666
Nigeria 2700
control, insecticides 5766, 10666
mangoes, India 5766
tea, USSR 4960
- Aspidiotus nerii**
control, insecticides 4769
Diaspididae, differentiation 11295
kiwifruits
Chile 4769
New Zealand 8553
ornamental plants, Egypt 776
taxonomy 11295
- Aspidomorpha miliaris**
biology, development 3617
Ipomoea carnea 3617
- Aspidomorpha sanctaecrucis**
biology, development 3617
Ipomoea carnea 3617
- Aspongopus janus** (see *Coridius janus*)
- Aster pilosus**
habitats, *Misumenops*, Mississippi 1388
Lygus lineolaris, Mississippi 1388
- Aster puniceus**, *Microrhopala xerene*, Virginia 9914
- Aster simplex**, *Microrhopala xerene*, Virginia 9914
- Aster subulatus**, *Stolas fuscata* 4588
- Aster tripolium**, *Agapanthia villosoridescens*, Netherlands 5572
- Asteraceae** (see *Compositae*)
- Asterolecaniidae**
distribution, Pacific Islands 7273
taxonomy 7273
- Asteromyia carbonifera**
Solidago altissima, galls 6646
taxonomy 6646
- Astigmata**
Apoidea, interactions 1243
soil, New Mexico 9323
- Astragalus**
insects, USA 5561
Therioaphis, Asia 6261
- Astragalus adscendens**, *Cyampophila dicora*, Iran 2529
- Astragalus canadensis**, *Acanthoscelides perforatus*, South Dakota 8784
- Astragalus glycyphyllos**, *Hypera postica* 3737
- Astragalus lusitanicus**, *Tomares ballus*, Spain 1400, 5573
- Astylus sexmaculatus**
biology 3670
field crops, Brazil 3670
monitoring, traps 3670
- Astylus variegatus**
biology 3670
field crops, Brazil 3670
monitoring, traps 3670
- Asymmetrasca decedens**
biology 2750

Asymmetrasca decedens cont.
control 2750
peaches, Italy 2750

Aszimetrin, toxicity, beneficial arthropods 8125

Atactogaster finitimus, legumes, India 5829

Ataenius robustus
cattle dung 10491
distribution, Mississippi 10491

Atalantia racemosa, extracts, antifeedants, *Spodoptera litura* 10162

*Atalaya hemiglauc*a, *Dorathymus althoferi*, Australia 17

Atanus angustus
host plants, Argentina 6764
monitoring, traps 6764

Atanus contrarius
monitoring, traps 6890
soyabeans, Argentina 6890

Ataxia cayensis
mangroves, Belize 1401
taxonomy, new species 1401

Atemoyas (see *Annona cherimola* × *A. squamosa*)

Athalia
biology 7589
cereals, Poland 7589
India 10236
taxonomy 10236

Athalia glabricollis
biology, development 615
mustard, Hungary 615

Athalia infumata (see *A. lugens*)

Athalia japonica
biology 1026
food plants, Japan 1026
morphology 1026
natural enemies 1026
taxonomy 1026

Athalia kashmirensis
biology 1026
food plants, Japan 1026
morphology 1026
natural enemies 1026
taxonomy 1026

Athalia lugens
biology 1026
behaviour 10761

Brassica 10761
food plants
Japan 1026
utilization 2238
morphology 1026
natural enemies 1026
physiology, nutrition 2238
taxonomy 1026

Athalia proxima (see *A. lugens*)

Athalia rosae
biology
development 6399-6400
reproduction 6401
control, insecticides 6865
rape, USSR 6865
rearing techniques 6399

Athalia rosae ruficornis
biology 1026
food plants, Japan 1026
Japan 2466
morphology 1026
natural enemies 1026
parasitoids 2466
plant extracts, attractants 2796
taxonomy 1026

Athalia scutellariae
biology 1026
morphology 1026
natural enemies 1026

Scutellaria, Japan 1026
taxonomy 1026

Athalia yanoi
biology 1026
food plants, Japan 1026
morphology 1026
natural enemies 1026
taxonomy 1026

Atherigona
control, insecticides 414
Gramineae, Afrotropical Region 6680
maize, India 414
taxonomy 6680

Atherigona alaostrana
Madagascar 6680
taxonomy, new species 6680

Atherigona approximata
control, insecticides 5632
pearl millet, India 5632

Atherigona bowdeni
taxonomy, new species 6680
Uganda 6680

Atherigona dentifolia
Kenya 6680
taxonomy, new species 6680

Atherigona nagvii
biology, behaviour 415
control, insecticides 414, 416
maize, India 411, 414-416, 11552, 11554

Atherigona palpalis
Nigeria 6680
taxonomy, new species 6680

Atherigona soccata
biology, behaviour 415, 1500
control, insecticides 414, 416, 7666, 8519, 11585
fertilizers, effects 1495
maize, India 411, 414-416, 11552, 11554
sorghum
Africa 3717
India 459-460, 1495, 1499, 7659, 7664, 7666, 8519, 11583, 11585, 11589
resistance 1500-1502, 3719, 7660-7661
varietal susceptibility 5673

Atheta aequata (see *Dinaraea aequata*)

Athetis hospes
biology 5895
tobacco, Italy 5895

Athoracophorus bitentaculatus
New Zealand 7547
predators 7547

Athrobacter, insecticides, degradation 7192

Athrycia cinerea
hosts, *Mamestra configurata* 6867
morphology 6867
rape, fields, Saskatchewan 6867

Atlantic salmon, insecticides, effects 2024, 7212, 11189

Atlas cedar (see *Cedrus atlantica*)

Atlestidae
Palaeartic Region, books 5232
taxonomy 5232

Atmosphere, insecticides, residues 5216

Atomaria linearis
beetroots, German Federal Republic 682
biology 677
control 677
insecticides 682, 8728, 11738-11739
sugarbeet 8728, 11738
Czechoslovakia 8731
Europe 11739
German Federal Republic 1676, 4873
USSR 677

Atopomacer, taxonomy, new genus 5261

Atopomacer hoplites
Pinus culminicola, Mexico 5261
taxonomy, new species 5261

Atractodes scutellatus
Finland 5053
hosts, *Strobilomyia* 5053

Atractomorpha acutipennis
ecology, population dynamics 3469
Pakistan 3469
parasitoids 3469

Atractomorpha crenulata, morphology, nymphs 6503

Atractomorpha crenulata crenulata
control, insecticides 2827
Vigna unguiculata, India 2827

Atractomorpha lata, rice, China 3685

Atractotomus mali
apples
Nova Scotia 2738, 10701
orchards, Bulgaria 6818
biology 6818
control, insecticides 2738, 10701
prey, *Aphis pomi* 6818

Atrazine
mixtures, toxicity, invertebrates 11212
nontarget effects, *Pterostichus* 9444

Atrichopogon
biology, behaviour 9299
North America 9299

Atrophaneura, taxonomy 3231

Atta
bibliographies 12015
fungi, interactions, reviews 4459

Atta cephalotes
biology, behaviour 8921, 11834
Costa Rica 2429
Daceton armigerum, interactions 8325
forests
Brazil 11834
Costa Rica 8921
Piper arieianum, Costa Rica 8826
plant extracts, effects 2429

Atta mexicana
Bycra villosa, interactions 9374
Mexico 9374

Atta sexdens
biology, behaviour 11834
forests, Brazil 11834
physiology, sense organs 10300

Atta sexdens piriventris
Brazil 7480
insecticides, pathogenicity 7480

Atta sexdens rubropilosa, *Leucocoprinus gongylophorus*, symbiosis 11425

Atta texana
biology, behaviour 6518
control, insecticides 10943
food plants, Texas 6518
Pinus, Texas 10943

Atta vollenweideri
Acromyrmex lundii, interactions 10425
South America 10425

Attacus atlas, tea, India 5903

Attagenus augustatus gobiola, stored products, China 10019

Attagenus megatomus (see *A. unicolor*)

Attagenus smirnovi, distribution, Europe 4406

Attagenus unicolor
insecticides, toxicity 1892, 11013
wool 1892

Attelabidae
biogeography 9343
distribution
North Dakota 11393
Poland 6465
Italy 9343

Atteva fabriciella
Ailanthus triphysa, India 10982
predators 10982

Attini, fungi, interactions, reviews 4459

Attractants
information 10185
insect pests 4238

Atypha pulmonaris
Italy 9888
monitoring, traps 9888

Aubergines (*Solanum melongena*)
Aculops lycopersici 6457
Amrasca devastans, India 7842

Aphididae, Afghanistan 6853

Aphis gossypii
India 1603
Japan 1374, 7761
arthropod pests
India 3855, 6946
Sicily 11655

Bemisia tabaci, India 6533

Cicadellidae, India 2887, 5865

Coridius janus 11704

Dorylus orientalis, China 9737

Earias, India 3504

Epilachna, Indonesia 2553

Epilachna vigintioctomaculata, Korea Republic 3914

Epilachna vigintioctopunctata 3860
fields
Hymenoptera
India 9740
Korea Republic 3914
predatory insects, India 3504
Trathala, India 2888-2889
Hishimonas phycitis 10850

Aubergines cont.

- insect pests, India 6947, 11757-11759, 11762
 - insecticides
 - effects 5864
 - residues 606, 5865, 6947-6948, 7841, 7843-7844, 11760, 11762
 - Keiferia lycopersicella* 4900
 - Leptinotarsa decemlineata*
 - Italy 731
 - New Jersey 4883, 7833, 7839
 - USSR 8764
 - Leucinodes orbonalis* 734
 - damage 2888
 - India 732, 2889, 11760
 - resistance 733, 9855
 - little leaf, vectors, *Hishimonas phycitis* 10850
 - Myzus persicae*, Japan 10851
 - pest control, India 7840
 - Spodoptera litura*, Philippines 5894
 - Tetranychus macfarlanei*, India 11761
 - Tetranychus neocaledonicus*, India 3919
 - Tetranychus urticae* 2890
 - Thrips palmi*, Martinique 3838
 - Trialeurodes vaporariorum*, Austria 3915
- Auchenorrhyncha**
- biology 10212
 - conferences 10212
 - control 10212
 - distribution
 - German Federal Republic 6461
 - USSR 2345
 - ecology, population dynamics 9545, 9611-9612
 - grasslands, UK 9545, 9611-9612
 - monitoring, traps 6890
 - morphology, integument 3259
 - parasitoids 4491
 - plant viruses, transmission, reviews 3109
 - soyabeans, Argentina 6890
- Auchmophila kordofensis**
- Acacia tortilis* 2963
 - distribution, Saudi Arabia 2963
- Aucuba japonica, Asphondylia aucubae**, Japan 2697
- Aufeius impressicollis**
- Amaranthus palmeri* 2561
 - distribution, South Carolina 2561
- Aulacaspis madiunensis**
- biology 6692
 - sugarcane 6692
- Aulacaspis rosae**
- China 4494
 - natural enemies 4494
- Aulacaspis tegalensis**
- predators 2469
 - sugarcane 2469
 - Mauritius 11278
- Aulacidae**
- distribution, Czechoslovakia 4012
 - hosts, Coleoptera 4012
- Aulacophora**, taxonomy 11389
- Aulacophora almora**, taxonomy, synonyms, of *Aulacophora semifusca* 2134
- Aulacophora foveicollis**
- Cucurbitaceae, food preferences 1630
 - distribution, Africa 11389
 - India 11709
 - plant extracts, toxicity 11709
 - plant oils, repellents 10535
 - pumpkins, India 11709
 - squashes, India 1631
- Aulacophora semifusca**, taxonomy, synonyms, *Aulacophora almora* 2134
- Aulacorthum solani**
- biology
 - behaviour 8799
 - environmental factors 5563-5564
 - control, insecticides 702, 3905
 - Pelargonium hortorum*, resistance 7899, 8799
 - plant pathogens, transmission 702, 1398, 9846
 - potatoes
 - Japan 3905
 - USSR 702

Aulacorthum solani cont.

- Rumex*, Japan 5563
 - strawberries, Norway 10674
 - tomatoes, Japan 9846
 - weeds, New Zealand 1398
- Aulocara ellioti**
- biology, environmental factors 9614
 - ecology, population dynamics 10210
 - grasslands, Montana 9614
- Aulonium ruficorne**
- biology 5045
 - ecology, population dynamics 9938
 - Israel 9938
 - natural enemies 9938
 - Pinus*, plantations, Israel 5045
 - prey, Scolytidae 5045, 9938
- Aulonocnemidae**, catalogues 9123
- Aulosira fertilissima**, insecticides, uptake 2047
- Aureobasidium pullulans, Cryptococcus fagisuga**, interactions 4022
- Auricularia auricula**, insect pests 11688
- Auriculoscypha**, Coccidae, interactions 10071
- Australasia**
- Acari, research workers, directories 6232
 - arthropod pests, maps 6455, 6457-6459
 - Dacinae 13
 - Diptera, books 3219
 - Epilachninae 3430
 - insect pests, maps 6456
 - Scirtothrips dorsalis* 6454
 - Sternonchus mangiferae* 6460
 - Winthemia* 3525
- Australia**
- Acari, research workers, directories 6232
 - Acyrtosiphon pisum* 3741
 - Aenetus* 4993
 - Antitrogus parvulus*, pathogens 6688
 - Apis mellifera*, pathogens 871
 - aquatic insects, catalogues 12031
 - Araneae 5262
 - Arpactophilus* 11
 - biological control 1969
 - Blacinae 10232
 - Bruchophagus rodii* 4695
 - Buprestidae 4007
 - Caledia captiva* 3463
 - Calomela* 9993
 - Cardiaspina* 806
 - Chortoicetes terminifera* 7420, 7473
 - Chrysanthemoides monilifera*, biological control agents 6641
 - Coccinellinae 2
 - Coleoptera, catalogues 12032
 - Coptotermes* 11349
 - Cryptostigma* 2138
 - Curculionidae 2317
 - Dactylosternum* 10233
 - Diuraphis noxia*, models 10560
 - Dorathymnus* 17
 - Eichhornia crassipes*, natural enemies 10519
 - Elenchidae, hosts 9409
 - Ephydriidae 4
 - Eucalyptus*, insect pests 11005
 - forest trees, insect pests 4006
 - Fraus* 9119
 - fruits, research, reports 9132
 - Geotrupinae 9332
 - Helicidae 369
 - Helicoverpa* 753, 7184
 - Helicoverpa armigera* 7861, 11164
 - Hemerobiidae 228
 - Heteropsylla cubana* 825
 - Hypericum perforatum*, natural enemies 3612
 - Ichneumoninae 241
 - insects as food 1356
 - Iridomyrmex* 1231
 - Isoptera 831, 10482
 - lucerne, pest resistance, reviews 6768
 - Macadamia*, conferences 2105
 - mangoes, arthropod pests 4231
 - Mesostenus* 6560
 - Mimosa pigra*, biological control agents 8428
 - Noctuidae, parasitoids 5583

Australia cont.

- Ommatolus moreleti*, biological control agents 6521
- passion fruits, pest control 9726
- pastures, arthropod pests 6759, 10643
- pesticides, residues 4190
- Phylacteophaga*, parasitoids 5959
- Polyrhachis* 5434-5435
- Psychopidae 3
- Rhopalocera 9297
- Salticidae 11289
- Senecio madagascariensis*, biological control agents 9490
- Silybum marianum*, biological control agents 5552
- Sitona discoideus*, parasitoids 2685
- Sitophilus oryzae* 7978
- Systellopini 8200
- Tenebrionidae 8198
- Thysanoptera 3232
- Australian Capital Territory
 - Apina callisto* 8421
 - Drosophila* 6779
 - Eurymeloides punctata* 8857
 - Perga affinis* 5026
 - Pseudanaphothrips casuarinae* 9991
- Australian Northern Territory
 - Isoptera 1345
 - Mimosa pigra*, natural enemies 8418, 9491
 - Salvinia molesta*, natural enemies 1376
- New South Wales
 - Acyrtosiphon kondoi* 2686
 - Agrypnus variabilis* 8658
 - Amblyseius victoriensis* 220, 8631-8632
 - Aphididae 3736
 - Bactrocera* 9644
 - Bruchophagus rodii* 10653
 - Calomela* 9993
 - Cerceris antipodes* 251, 2482, 7404
 - cereal grains, insecticide residues 10038
 - Chortoicetes terminifera* 6505
 - Chrysophtharta hectica* 7935
 - Cosmopolites sordidus*, natural enemies 7758
 - Drosophila*, parasitoids 10509
 - Drosophila flavohirta*, parasitoids 2992
 - Eurymeloides punctata* 8857
 - fishes, insecticide residues 10124, 12002
 - Glycaspis* 2959
 - Helicoverpa* 754, 10845
 - Idaethina* 11806
 - Junonia villida* 2559
 - Lantana camara*, natural enemies 6633
 - man, insecticide residues 4194
 - Mordella sydneyana* 3066
 - Noctuidae 3942
 - Onitis alexis* 1510
 - Papilionidae 1151
 - Parepisparis* 11803
 - pesticide residues 10129
 - Rhytidoponera* 1232
 - rivers, insecticide residues 3190
 - Sitobion* 10637
 - weeds, natural enemies 2572
 - Zeugophora* 7946
- Queensland
 - Baccharis halimifolia*
 - biological control agents 5557
 - natural enemies 1390-1391
 - Bactrocera tryoni* 7757
 - barley yellow dwarf luteovirus, vectors 1429
 - Bruchophagus fellis* 7755
 - Caledia captiva* 181
 - Crematogaster*, predators 11358
 - Crotonia* 1879
 - Danaus plexippus* 2573, 9494
 - Dolichotetranychus floridanus* 8657
 - Drosophilidae 5267
 - Dysoxylum gaudichaudianum*, Diptera 1875
 - Euploea core* 9503
 - Glycaspis* 3028
 - Glycaspis incompta* 2961

Australia cont.

Queensland cont.

- Gymnanthera nitida*, Lepidoptera 1393
- Helicoverpa* 2361, 9874
 - parasitoids 5776
- Hemiberlesia lataniae*, natural enemies 7743
- Hydrellia griseola*, parasitoids 7645
- Idaethina* 11806
- Jalmenus evagoras* 1814
- Libythea geoffroy* 10948
- mangoes, arthropod pests 3827
- Megisba strongyle* 10949
- Melolonthinae 3646
- Metriorhynchus rufipennis* 1766
- Nala lividipes* 10597
- Nanophyllium pygmaeum* 1765
- Nezara viridula* 9310
- Oryzaephilus surinamensis* 7100
- Pectinophora scutigera* 5871
- Planococcus citri*, natural enemies 7747
- plants, Acari 7909
- Protaetia fusca* 11659
- Pseudanaphothrips araucariae* 9991
- Rhopalocera 2344
- Salvinia molesta*, natural enemies 330
- Samea multiplicalis* 6651
- social insects 11476
- soil, insect pests 4612
- sunflowers, pest control 3923
- Tenebrionidae 7811
- Tetranychus urticae* 6995
 - predators 8630
- Zeugophora* 7946

South Australia

- Cydia pomonella* 4738
- Helicoverpa* 2361
- Icerya purchasi*, natural enemies 5942
- Ommatolulus moreleti*, pathogens 6016
- Pentatomidae, parasitoids 3744
- Porotermes adamsoni* 11855
- Pseudanaphothrips casuarinae* 9991
- Setobates* 6251
- Sitobion* 10637
- Uraba lugens*, parasitoids 8915
- Uracanthus cupressianus* 5983

Tasmania

- Adoryphorus coultoni* 10641
- Chrysophtharta bimaculata*, predators 10965
- forest trees, insect pests 11252
- Fraus simulans* 9119
- Oncopera intricata*, pathogens 6067
- Sitobion* 10637
- Synanthedon tipuliformis* 8560

Victoria

- Arotrophora canthelias* 9504
- Formicidae 10396
- Gryllotalpa australis* 7362
- Hemiptera 2710
- Jalmenus evagoras* 1874
- Lepidoptera 1159
- Noctuidae 5608
- pastures, arthropod pests 6760
- pest control, information 6491
- Phaulacridium vittatum* 2406
- Phthorimaea operculella*, parasitoids 10826
- plants, Acari 7909
- Sirex noctilio* 10937
- Sitobion* 10637
- Viteus vitifoliae* 10682

Western Australia

- Bellaltica* 3981
- Iridomyrmex humilis*, reports 11280
- Lepidiota alticalceus* 805
- ornamental plants, insect pests 11778
- Perthida glyphopa* 3029
 - parasitoids 10966
- Sitobion* 10637
- streams, insecticide residues 7228
- Trachymela tincticollis*, parasitoids 3021

Australian grapevine yellows, vectors, Hemiptera 2710

Austria

- Acari 6780
- Anthonomus rubi* 8557
- apples, orchards, predatory mites 3796
- Araneae 3562
- Arianta arbustorum* 7546
- arthropod pests 9320
- Centaurea*, insects 6644
- Corythucha ciliata* 11001
- crops, pest control 12036
- forests, arthropods 5060
- fruits, pest control 5693, 9035-9036
- grapes
 - arthropod pests 3765-3767, 6793-6794
 - arthropods 6792
 - pest control 3768
- greenhouse crops, arthropods 2786
- Ips typographus* 1849
- Kampimodromus aberrans* 2726
- orchards, predatory mites 2741
- pesticides, information 6146, 6148
- Picea*
 - arthropods 8910
 - insects 10989
- Pityogenes chalcographus* 5979
- Pontania* 4039
- Quercus*, Hemiptera 4043
- Sesiidae 3432
- Trialeurodes vaporariorum*, parasitoids 3915
- Uroleucon doronici* 9919
- vineyards
 - beneficial arthropods 9659
 - beneficial insects 3765

Austrian pine (see *Pinus nigra*)

Austrogallia torrida

- lucerne, Victoria 2710
- plant pathogens, transmission 2710
- Austropotamobius torrentium*, insecticides, effects 9083

Autographa biloba

- biology 2299
- rearing techniques 2299

Autographa californica

- biology, phenology 9635
- cell lines, pathogens 11090, 11097, 11107
- food plants
 - California 9635
 - Oregon 9634
- genetics, gene expression 8036
- insecticides
 - effects 9054
 - pathogenicity 11920
- parasitoids 9634
- pathogens 117, 1949, 1957, 2177, 3128, 4090, 4095, 4101-4102, 4115, 4118-4119, 4124, 4134-4136, 4140, 4150, 5109, 5113, 5120, 5308, 6060, 6074-6076, 6091, 7133-7134, 7152, 7232, 8015, 8036, 8045, 8991, 9000, 10081, 11091, 11093, 11103-11106, 11108-11109

Autographa gamma

- biology
 - behaviour 7894
 - diapause 3372, 5792
- cabbages, Japan 5792
- crops, USSR 916
- diets 7454
- ecology, population dynamics 9326
- Egypt 9326
- food plants, UK 8808
- Iraq 1205
- Japan 3372
- lucerne, Japan 1535
- meadows, Japan 7680
- monitoring 916
 - traps 1205, 2944, 3139, 7680, 8808, 10749
- ornamental plants, Italy 2944
- pathogens 1535, 11102
- pheromones 7680
- Poland 4408
- rearing techniques 7454
- sex pheromones 2944
- Tagetes*, Japan 7894

Autographa gamma cont.

- USSR 3139
- vegetables, German Democratic Republic 10749
- Autographa nigrisigna**
 - Cicer arietinum*, India 2853
 - control, insecticides 2827
 - Vigna unguiculata*, India 2827
- Automeris zephyria**
 - biology 10983
 - forest trees, New Mexico 10983
 - morphology, larvae 10983
- Avena sativa* (see Oats)
- Avermectin (see Abamectin)
- Avermectin B₁ (see Abamectin)
- Avermectin B_{1a} (see Abamectin)
- Avermectins
 - pest control 6105
 - synthesis 11962
- Averrhoa carambola**
 - commodities, *Anastrepha suspensa* 8964
 - Panonychus citri*, Taiwan 2772
 - pest control, Taiwan 5758
- Avicennia marina*, *Crematogaster*, Queensland 11358
- Avocado pears (see Avocados)**
- Avocados (Persea americana)**
 - Aleyrodes*, Guadeloupe 9147
 - Apate monachus*, Cuba 1580
 - arthropod pests
 - Canary Islands 1574
 - control, pesticides 11115-11116
 - Ascotis selenaria*, Israel 4775
 - commodities, Tephritidae, damage 5746
 - Conotrachelus perseae*, Central America 6460
 - habitats
 - Galendromus annectens*, North America 9646
 - Neoseiulus chilensis*, Peru 9646
 - Heliothrips haemorrhoidalis*, California 3806
 - Hemiberlesia lataniae*, Queensland 7743
 - Lepidoptera, Israel 10719
 - Maladera matrida*, damage 2691
 - Oligonychus yothersi*, damage 4773
- orchards
 - beneficial insects, Queensland 7743
 - Megaphragma mymaripenne*, California 3806
- pest control 1375
 - books 2085
- Protaetia fusca*, Queensland 11659
- Pseudotheraptus wayi*, damage 10714
- Tephritidae, damage 5746
- Tuckerella pavoniformis*, Costa Rica 7739

Axylia putris

- fruit trees, Korea Republic 3747
- monitoring, traps 3747, 9888
- tobacco, Italy 9888

Azadirachta indica

- insecticidal properties 1985
- oils
 - control, *Callosobruchus chinensis* 8932
- effects
 - Delphacidae 3700
 - insect pests 8967
 - Nilaparvata lugens* 8508
 - Sitophilus zeamais* 4065
- repellents, *Rhyzopertha dominica* 10032
- toxicity, wheat, commodities, insect pests 5099
- pest control
 - books 5234
 - Burkina Faso, economics 6676
 - economics, reviews 1990
 - reviews 9050
- pesticidal properties, bibliographies 5227
- Spilosoma obliqua* 2782
- volatile compounds, effects, *Earias vitella* 4185
- Azadirachtin (see also Neem extracts)**
 - antifeedants
 - Eyprepocnemis plorans* 190
 - Noctuidae 3922, 12012

- Azadirachtin** *cont.*
 degradation 3169
 derivatives, antifeedants, Noctuidae 10159
 effects
Galleria mellonella 11970
 insect pests 5234, 8967
 insects 4151, 11145
Locusta migratoria 2407, 4341, 7333, 11336
 Noctuidae 929
Spodoptera litura 11526
Tenebrio molitor 8928
 growth regulators
Locusta migratoria 5415
 Noctuidae 11981
 insecticidal properties 4220
 metabolism, *Heliothis virescens* 5220
 mode of action 9129, 11145
 pest control 3167
 precursors 10160
 synthesis 10160-10161
 toxicity, *Heliothis virescens* 3169
- Azeta versicolor**
 biology, phenology 2964
Gliricidia sepium, Costa Rica 2964
- L-Azetidine-2-carboxylic acid**, effects,
Helicoverpa zea 10158
- Azinphos-ethyl** (*O,O*-diethyl *S*-[(4-oxo-1,2,3-benzotriazin-3(4*H*)-yl)methyl]phosphorodithioate)
 control, onions, insect pests 8750
 nontarget effects, rabbits 4186
- Azinphos-methyl** (*O,O*-dimethyl *S*-[(4-oxo-1,2,3-benzotriazin-3(4*H*)-yl)methyl]phosphorodithioate)
 control
Anthonomus eugenii 4906
 apples
 arthropod pests 2742, 8612
 insect pests 4746
 cotton, insect pests 5886
Cydia pomonella 4738
Prays citri 9723
Quadraspidiotus ostreaeformis 5719
Syllepte derogata 755
Udea ferrugalis 7803
 determination 10146
 effects
Amblyseius victoriensis 8632
Phytoseiulus persimilis 8630
 metabolism, mites 10437
 nontarget effects
 rabbits 4186
Trioxys pallidus 11634
 residues, *Apis mellifera* 962
 resistance
Cacopsylla pyricola 1565
Chrysoperla carnea 2509
Epiphyas postvittana 6814, 10700
Leptinotarsa decemlineata 5191, 10117, 10827
Phyllonorycter blancardella 10699
Platynota idaeusalis 6815, 8604
Spodoptera littoralis 1064
Trioxys pallidus 6801
 synergism 5191
 toxicity
Anthonomus grandis 9353
Platynota idaeusalis 6813
Rhagoletis pomonella 4756
Zeiraphera canadensis 8853
- Azinphosethyl** (see Azinphos-ethyl)
Azinphosmethyl (see Azinphos-methyl)
Aziprotryne, nontarget effects, Carabidae 7780
- Azocyclotin** (1-(tricyclohexylstannyl)-1*H*-1,2,4-triazole)
 control, *Tetranychus urticae* 6995
 residues, foods 10224
 resistance, *Tetranychus urticae* 3161
- Azodrin** (see Monocrotophos)
Azolla, pest control, India 6669
Azolla caroliniana, *Neohydronomus affinis* 5556
Azolla pinnata, insecticides, effects 6669
Azospirillum brasilense, pesticides, effects 8119
Azotobacter, insecticides, effects 4211
Azotobacter chroococcum, insecticides, effects 10136
Azotus fumipennis
 hosts, *Melanaspis glomerata* 2593
 insecticides, effects 2593
 sugarcane, plantations, India 2593
Azotus perspicuosus
 hosts, *Quadraspidiotus perniciosus* 11433
 India 11433
- Azteca**
Cecropia, Brazil 5035
 distribution 5035
 ecology 5035
- Azteca constructor**
Cecropia, interactions 2952
 Ecuador 2952
- Azteca trigona**
 biology, behaviour 11421
 Panama 11421
- Azya luteipes**
 insecticides, effects 9715
 oranges, orchards, Brazil 9715
 prey, *Selenaspidus articulatus* 9715
- Baccharis**
Amblyseius quichua, Peru 5763
Neolasioptera rostrata, galls 3618
 Sphecidae, Chile 1340
- Baccharis halimifolia**
 beneficial insects, interactions 1391
 biological control 1390
 biological control agents, evaluation 1391, 5557
 natural enemies, USA 1391
Neolasioptera rostrata, galls 3618
 Queensland 1390-1391, 5557
Tephritis, North America 4585
Trirhabda bacharidis 3623
- Baccharis neglecta**
Itame varadaria, Texas 5557
Tephritis, North America 4585
Trirhabda bacharidis, Texas 3623
- Baccharis pilularis**
Itame varadaria, Texas 5557
Rhopalomyia californica, galls 1287, 4597
Trirhabda bacharidis 3623
- Baccharis salicifolia**
 arthropods, North America 9506
 biological control agents, evaluation 4588
 insects, pollination 9506
 USA 4588
- Baccharis sarothroides**
 insect pests, USA 1403
Itame varadaria, Texas 5557
Trirhabda bacharidis 3623
- Bacillus**
Holotrichia serrata, symbiosis 9817
 hosts
Eupeodes confrater 10772
 insects 3095
 Lepidoptera 5130, 6745
 Noctuidae 5601
 insecticides, degradation 11216
- Bacillus alvei**, hosts, *Scolytus* 11949
Bacillus amyloliquefaciens, taxonomy 7153
- Bacillus cereus**
Bacillus thuringiensis, differentiation 897
 enzymes 897
 hosts
 insects 3095
Scolytus 11949
Pieris brassicae, serum, effects 4199
- Bacillus circulans**, hosts, Lepidoptera 5130
- Bacillus coagulans**, insecticides, degradation 11217
- Bacillus letimorbus**, hosts, insects 3095
- Bacillus megaterium**, hosts, *Scolytus* 11949
- Bacillus polymyxa**, *Plautia stali*, symbiosis 3104
- Bacillus popilliae**, hosts, *Holotrichia serrata* 886
- Bacillus rossius**
 biochemistry
 fat body 9202
 vitellogenesis 9201
- Bacillus sphaericus**
 hosts
Apis mellifera 11076
 insects 3095
 nontarget effects, mammals 9087
- Bacillus subtilis**
 culture techniques 11063
 genetic engineering, transformation 9002
 growth, models 6077
 hosts, Lepidoptera 5647
 metabolism 6096
 proteinases 8994
 taxonomy 7153
- Bacillus thuringiensis**
Bacillus cereus, differentiation 897
 bioassays 4107, 11942
 biochemistry, enzymes 8031
 characteristics 899
 characterization 896
 conferences 1019
 control
 cabbages, insect pests 8682, 11695-11696
Choristoneura fumiferana 5050, 7914
 crops, insect pests 589
Cydia pomonella 534
Ectomyelois ceratoniae 5756
Euproctis lunata 796
 forest pests 842
Galleria mellonella 11112
Helicoverpa armigera 6967, 7669
Hyphantria cunea 9021
 insect pests 5161
 insects 1019
 Lepidoptera 2635
Leptinotarsa decemlineata 3901
Loxostege sticticalis 322
Lymantria dispar 3006, 7947, 9966
Nematus 512
Phthorimaea operculella 11741
Plodia interpunctella 6027
Plutella xylostella 5791
Polyphagotarsonemus latus 1713
 potatoes, insect pests 703
Tortrix viridana 1803
 culture techniques 4097, 10086
 detection 3106
 effects
Chilo suppressalis 5649
 mites 5711
 small mammals 817
 enzymes 897, 8020
 effects, *Trichoplusia ni*, cell lines 882
 probes, membranes 1927
 formulations, protectants 11907
 genetic engineering, transformation 9002
 genetics 8029
 DNA 11099
 genes, toxins 8976
 genetic engineering 1980, 3138
 reviews 7127
 hosts
Aproaerema modicella 8723
Bombyx mori 8038
Choristoneura fumiferana 9964
Dendrolimus 10052
Ephestia cautella 11022
Galleria mellonella 11077
Helicoverpa armigera 1280, 4089
 insects 3095, 11099
 Lepidoptera 899, 3106, 5130, 7141
Leptinotarsa decemlineata 896, 3401
Mamestra configurata 1947
 Noctuidae 11942
Ostrinia nubilalis 7158, 11907
Pieris rapae 4107
Scolytus 11949
Spodoptera 5126
Spodoptera frugiperda 11919
Spodoptera litura 8996
 isolation 896
 mixtures
 control
Aporia crataegi 3131
 Lepidoptera 8029
 tomatoes, insect pests 1712

Bacillus thuringiensis *cont.*
 mixtures *cont.*
 toxicity, Lepidoptera 3131
 natural enemies 1926
 nontarget effects
 animals 6180
 Cotesia glomerata 8684
 pest control 1966, 5212, 5581, 6105, 10196, 11114
 reviews 8052
 research, reviews 8995
 residues, drinking water 6178, 6181
 resistance, *Plodia interpunctella* 9023
 reviews 1929
 soil 1926
 extraction 6057
 temperature, effects 9964
 toxicity
 Chrysomelidae 11114
 Drosophila melanogaster 6065
 insects 4120
 Lepidoptera 5114
 Ostrinia furnacalis 3085
 reviews 10058
 toxins
 characterization 8038
 genes 7127
 genetic engineering 11114
 pest resistance 7858
 preparation 7129
 transformation 8975

Bacillus thuringiensis subsp. *aizawai*
 bacteriophages, isolation 7154
 genetics
 DNA 11099
 genes, toxins 1930, 7123, 7125, 8011-8012
 hosts
 Galleria mellonella 898
 insects 7123, 8014
 Mamestra configurata 1947
 Pieris brassicae 8012
 Plodia interpunctella 11915
 Spodoptera 5126
 Spodoptera littoralis 11099
 toxins
 genetic engineering 8018
 mode of action 8009

Bacillus thuringiensis subsp. *alesti*
 antigens 7135
 control, Lepidoptera 1972
 genetics, plasmids, transfer 10063
 hosts
 Bombyx mori 6094
 Lepidoptera 7135

Bacillus thuringiensis subsp. *berliner*,
 genetics, DNA, nucleotide sequences 7122

Bacillus thuringiensis subsp. *darmstadensis*,
 toxicity, insects, cell lines 8017

Bacillus thuringiensis subsp. *dendrolimus*
 control
 cabbages, Lepidoptera 2804
 Cydia pomonella 545
 Hyphantria cunea 9021
 insect pests 3124
 Lepidoptera 608
 Noctuidae 741
 Quercus, insect pests 1802
 Tortrix viridana 1803
 hosts
 Bombyx mori 2538
 Phaedon cochleariae 3112
 mixtures
 control, *Aporia crataegi* 3131
 toxicity, Lepidoptera 3131
 nontarget effects, beneficial arthropods 1802

Bacillus thuringiensis subsp. *entomocidus*
Bacillus thuringiensis subsp. *oyamensis*,
 differentiation 1950
 gene mapping 1928
 hosts
 Mamestra configurata 1947
 Spodoptera 5126
 toxins 1928

Bacillus thuringiensis subsp. *finitimus*,
 toxins, antibacterial properties 8019

Bacillus thuringiensis subsp. *fukuokaensis*
 antigens 7135

Bacillus thuringiensis subsp. *fukuokaensis*
cont.
 hosts
 Bombyx mori 6094
 Lepidoptera 7135, 11923
 pathotypes 11923
 taxonomy, new subspecies 7135

Bacillus thuringiensis subsp. *galleriae*
 control
 insect pests 3124
 Lepidoptera 1972
 genetics, genes, toxins 5116
 hosts
 Agrotis ipsilon 10084
 Bombyx mori 2538
 synergism 10084
 toxicity, *Ostrinia furnacalis* 5116
 toxins
 antibacterial properties 8019
 synergists 10084

Bacillus thuringiensis subsp. *israelensis*
 culture techniques 3093
 hosts
 Bombyx mori 4104
 Diptera 7155
 nontarget effects, mammals 9087
 protoplasts, preparation 8013
 serology 5135
 toxins
 characterization 1920
 haemolysis 3091
 mode of action 8009

Bacillus thuringiensis subsp. *kenyae*
 control
 Helicoverpa armigera 9821
 Lepidoptera 7876
 effects, cotton 11775
 genetics, genes, toxins 10076
 hosts
 Helicoverpa armigera 10078
 Mamestra configurata 1947
 toxicity, *Helicoverpa assulta* 10076

Bacillus thuringiensis subsp. *kurstaki*
 amylase, production 6081
 antigens 7135
 bioassays 11942
 control
 apples, arthropod pests 10701
 cabbages, insect pests 9766
 Cnaphalocrocis medinalis 426
 Helicoverpa armigera 9821
 Hyphantria cunea 9021
 insect pests 3124
 Lambdina fiscellaria 7915, 8852
 Lepidoptera 608, 902, 5794
 Lobesia botrana 8565, 9660
 Lymantria dispar 3000, 8869, 11824
 Noctuidae 741, 5163
 Plutella xylostella 4825
 Scarabaeidae 4869
 Spodoptera exigua 9560
 culture techniques 291, 4133, 7128, 8010
 deposition, forest trees 10907
 effects
 Calpodex ethlius 6320
 Chilo suppressalis 5649
 Manduca sexta 3102
 parasitoids 217
 small mammals 817
 formulations 8869
 sprays 10907
 genetics
 genes, toxins 1938, 3092, 6064, 10065, 10076, 11094
 genetic engineering 4105
 hosts
 Bombyx mori 291, 4100, 6094, 11947
 Choristoneura 3037
 Choristoneura fumiferana 10068
 Ephestia kuehniella 3118
 Helicoverpa armigera 2854, 10078
 Heliothis virescens 2203, 11928
 insects 8014
 Lepidoptera 7135, 7141, 7155, 9006, 11094
 Mamestra configurata 1947
 Noctuidae 11942
 Phaedon cochleariae 3112

Bacillus thuringiensis subsp. *kurstaki*
cont.
 hosts *cont.*
 Phthorimaea operculella 8936
 Plodia interpunctella 11915
 Spilosoma obliqua 5892
 Spodoptera exigua 11936
 mixtures
 control, *Plutella xylostella* 3852
 effects, Lepidoptera 9054
 toxicity, *Helicoverpa armigera* 2854
Neoplectana carpocapsae, interactions 4100
 nikkomycins, production 7128
 nontarget effects
 Lymantria dispar, natural enemies 11824
 Typhlodromus pyri 10701
Nosema fumiferanae, interactions 10068
 physiology 1937
 protoplasts, preparation 8013
 resistance, *Heliothis virescens* 4105
 synergism 9054, 9660
 toxicity
 Choristoneura fumiferana 1937
 Helicoverpa assulta 10076
 Lepidoptera 1938
 Noctuidae 11081
 Spodoptera litura 10065
 toxins 1937, 11081
 antibacterial properties 8019
 biochemistry 8030
 Lepidoptera, cells, effects 11947
 mode of action 8009

Bacillus thuringiensis subsp. *morrisoni*,
 serology 5135

Bacillus thuringiensis subsp. *oyamensis*
Bacillus thuringiensis subsp. *entomocidus*, differentiation 1950
 hosts, *Bombyx mori* 1950

Bacillus thuringiensis subsp. *san diego*
 control
 Leptinotarsa decemlineata 4885
 Pyrrhalta luteola 7011
 hosts, *Leptinotarsa decemlineata* 4884

Bacillus thuringiensis subsp. *sumiyoshiensis*
 antigens 7135
 hosts, Lepidoptera 7135
 taxonomy, new subspecies 7135

Bacillus thuringiensis subsp. *tenebrionis*
 genetics, genes, toxins 6064
 hosts, *Apis mellifera* 11076
 toxicity, *Leptinotarsa decemlineata* 3902

Bacillus thuringiensis subsp. *thuringiensis*
 bacteriocins 4103
 control
 Anthonomus rubi 501
 Curculio nucum 3773
 greenhouse crops, insect pests 5162
 insect pests 3124
 Lepidoptera 1972
 Leptinotarsa decemlineata 903, 8764
 Lobesia botrana 8565
 Lymantria monacha 5067
 Noctuidae 741
 Scirpophaga incertulas 10611
 Spodoptera exigua 9560
 Tetranychus urticae 274
 Tortrix viridana 1803
 culture techniques 10086, 11909
 effects
 Leptinotarsa decemlineata 3119
 Myzus persicae 2894
 hosts
 Bombyx mori 11909
 Helicoverpa armigera 4089
 insects 8014
 Lepidoptera 9006
 mixtures, control, *Cydia pomonella* 547
 nontarget effects
 Carabidae 696
 Chrysoperla carnea 274
 forests, insects 5067
 toxicity
 Lepidoptera 4120
 Pieris brassicae 4120
 toxins, mode of action 8009

- Bacillus thuringiensis* subsp. *wenguanensis*, hosts, insects 5117
- Bacitracin**, mixtures, toxicity, *Tribolium castaneum* 4173
- Bacteria** (see also Entomopathogenic bacteria)
- Acyrtosiphon pisum*, symbiosis 6293
- Aphididae, interactions 5395
- Armadillidium vulgare*, interactions 10085
- botanical insecticides, mutagenicity 7197
- control
- Achatina fulica* 11499
- insect pests 4155
- Helix aspersa*, symbiosis 9214
- insecticides
- degradation 2005, 11216-11217
- effects 4211, 4932, 8783, 10123, 11214
- insects, interactions 11379
- Isoptera, interactions 9464
- Nematoda, interactions 4155
- Odontotermes formosanus*, interactions 5517
- Parasitaphelenchus oldhami*, interactions 1852
- Pyrulidae, interactions 8319
- Sogatella furcifera*, symbiosis 3104
- Sphaerotermes sphaerotherax*, interactions 9460
- Bacterial insecticides** (see also Microbial pesticides)
- pest control 6105
- books 10196
- reviews 8052
- Bactospeine** (see *Bacillus thuringiensis* subsp. *thuringiensis*)
- Bactra furfurana*, morphology, genitalia 11599
- Bactra lancealana*, morphology, genitalia 11599
- Bactra suedana**
- Carex nigra*, Europe 11599
- morphology, genitalia 11599
- taxonomy, new species 11599
- Bactrocera**
- apricots, India 11654
- attractants 13
- control 11654
- food plants 13
- Bactrocera aquilonis*, taxonomy, from *Dacus* 13
- Bactrocera bancroftii*, taxonomy, from *Dacus* 13
- Bactrocera barringtoniae*, taxonomy, from *Dacus* 13
- Bactrocera bryoniae*, taxonomy, from *Dacus* 13
- Bactrocera cacuminata*, taxonomy, from *Dacus* 13
- Bactrocera chorista*, taxonomy, from *Dacus* 13
- Bactrocera cucumis*
- physiology, secretions 4307
- taxonomy, from *Dacus* 13
- Bactrocera cucurbitae**
- attractants 6133, 7726, 9727
- biology 3081
- behaviour 2217, 2295, 2313, 5745, 6133
- cold storage 2395
- control 4162
- heat treatment 4081, 11893
- insecticides 5760
- sterile insect release 3750
- trapping 9727
- cucumbers 10777
- Cucurbitaceae, Mauritius 9727
- diets 169
- distribution, Korea Republic 8296
- ecology, distribution 11359
- food plants, Hawaii 11615
- fruits
- Japan 3750
- New Zealand 7726
- growth regulators, toxicity 11049
- Hawaii 3144
- insecticides, toxicity 11980
- Japan 4162, 6133
- melons 2295
- Bactrocera cucurbitae* cont.
- melons cont.
- Pakistan 5760
- Momordica charantia*
- Japan 5745
- Mariana Islands 11359
- monitoring 9727
- traps 3144, 6133, 7726
- nutrients, effects 2237
- pawpaws
- commodities 4081, 11049, 11893
- Hawaii 8966
- Hawaii 3081
- pheromones 2217
- physiology, reproduction 9243
- plant extracts, attractants 3144
- radiation, effects 2295, 10777
- rearing techniques 169, 11405
- songs 2313
- sterilization, effects 5745, 6133
- taxonomy, from *Dacus* 13
- Bactrocera curvipennis*, taxonomy, from *Dacus* 13
- Bactrocera distincta*, taxonomy, from *Dacus* 13
- Bactrocera dorsalis**
- attractants 582, 7726, 10657
- avocados, Hawaii 5746
- biology 1021, 2383, 3081
- behaviour 6848
- environmental factors 11410, 11777
- California 490
- chemosterilants, effects 4180, 7399
- coffee, Hawaii 11777
- control 490, 1021
- heat treatment 11893
- models 8963
- hot water treatment 3078
- plastic film 3077
- sterile insect release 3750
- trapping 4707, 10657
- distribution, maps 6455
- ecology, distribution 10657
- food plants 6455
- Taiwan 4707
- fruit trees, Hawaii 582
- fruits
- Japan 3750
- New Zealand 7726
- Taiwan 10657
- genetics, mutants 4346
- growth regulators, toxicity 11049
- guavas, Hawaii 11615
- Hawaii 3144
- insecticides, toxicity 11980
- kumquats 6848
- Malaysia 2215
- monitoring, traps 3144, 7726
- pawpaws
- commodities 3077, 8963, 11049, 11893
- Hawaii 3078, 8966
- Hawaii 3081
- physiology
- chemical composition 5339
- glands 10272
- pheromones 2215
- reproduction 4180
- sense organs 87
- plant extracts, attractants 3144
- rearing techniques 2383, 11410
- Bactrocera endiandrae*, taxonomy, from *Dacus* 13
- Bactrocera facialis*, taxonomy, from *Dacus* 13
- Bactrocera fagraea*, taxonomy, from *Dacus* 13
- Bactrocera frauenfeldi*, taxonomy, from *Dacus* 13
- Bactrocera halfordiae*
- physiology, secretions 4307
- taxonomy, from *Dacus* 13
- Bactrocera jarvisi*
- biology, reproduction 9644
- fruits, New South Wales 9644
- taxonomy, from *Dacus* 13
- Bactrocera kirki*, taxonomy, from *Dacus* 13
- Bactrocera kraussi*, taxonomy, from *Dacus* 13
- Bactrocera longicornis*, taxonomy, from *Dacus* 13
- Bactrocera luteola*, taxonomy, from *Dacus* 13
- Bactrocera mayi*, taxonomy, from *Dacus* 13
- Bactrocera melanotus*, taxonomy, from *Dacus* 13
- Bactrocera musae*, taxonomy, from *Dacus* 13
- Bactrocera neohumeralis*, taxonomy, from *Dacus* 13
- Bactrocera nigra*, taxonomy, from *Dacus* 13
- Bactrocera oleae**
- biology 1021, 3820
- diapause 11670
- phenology 11668-11669
- control 1021, 3820
- insecticides 11669
- diets 9362
- forecasting 11668
- genetics
- genes
- cuticle 1137
- vitellogenins 3354
- monitoring, traps 11668-11669
- morphology 5274
- antennae 3253
- olives 3820, 8650
- Greece 577, 11670
- Italy 11668-11669
- pathogens 889
- pheromones 577
- physiology
- cuticle 76
- spermatozoa 2262
- rearing techniques 9362
- Bactrocera opiliae*, taxonomy, from *Dacus* 13
- Bactrocera passiflorae*, taxonomy, from *Dacus* 13
- Bactrocera psidii*, taxonomy, from *Dacus* 13
- Bactrocera quadrata*, taxonomy, from *Dacus* 13
- Bactrocera signatifer*, taxonomy, from *Dacus* 13
- Bactrocera strigata*, taxonomy, from *Dacus* 13
- Bactrocera tenuifascia*, taxonomy, from *Dacus* 13
- Bactrocera tryoni**
- attractants 7726, 7757
- biology
- behaviour 1108
- reproduction 9644
- control, insecticides 7757
- fruits
- New South Wales 9644
- New Zealand 7726
- monitoring, traps 7726
- passion fruits, Queensland 7757
- pathogens 4706
- physiology, sense organs 1108
- taxonomy, from *Dacus* 13
- Bactrocera umbrosa*, taxonomy, from *Dacus* 13
- Bactrocera xanthodes*
- control, fumigants 4085
- taxonomy, from *Dacus* 13
- watermelons, commodities, Tonga 4085
- Bactrocera zonata**
- fruits, India 2692
- India 178
- monitoring, traps 178
- parasitoids 2692
- Bactucide** (see *Bacillus thuringiensis* subsp. *kurstaki*)
- Baculoviridae**
- biology 8007
- biotechnology, reviews 8015, 8033
- control, insect pests 1962
- genetics 8007, 8033
- genetic engineering 884, 993, 3108, 7148, 8040
- hosts
- insects 3108
- Scarabaeidae 893
- Trichoplusia ni* 8043
- production, techniques 11107

Baculoviridae *cont.*
replication 3853
residues, water 6182
reviews 1962

Baculovirus
control, *Oryctes rhinoceros* 9648
hosts
 Glabromicroplitis croceipes 4542
 Oryctes rhinoceros 11095
identification 4148
relationships, determination 11095

Baculovirus amsacta
effects, parasitoids 2846
hosts, *Amsacta albistriga* 2846

Baculovirus anticarsia
control
 soyabeans
 arthropod pests 4860
 insect pests 11279

Baculovirus erinnyis, control, *Erinnyis ello* 712

Baculovirus heliothis, control, *Helicoverpa armigera* 2635

Baculovirus oryctes, control, *Oryctes monoceros* 5695

Baeturia maddisoni
food plants, Oceania 10239
taxonomy, new species 10239

Bagous affinis
Hydrilla verticillata, India 7557
morphology 7557

Bagous laevigatus
Hydrilla verticillata, India 7557
morphology 7557
taxonomy, new species 7557

Bagrada hilaris
biology, behaviour 10774
control, insecticides 5795
field crops, South Africa 5796
Indian mustard 10774
 India 5795
pheromones 10774
physiology, endocrine system 3328

Bahamas
arthropods, ecology 11392
Oedancala cladiumicola 11591
Rhopalocera 2352

Baileyna indica
Ehretia acuminata, galls 10977
India 10977
taxonomy, new species 10977

Baits
control, *Sarasinula plebeia* 640
mixtures
 attractants, *Trogoderma granarium* 8935
 control, *Rhagoletis pomonella* 11645
 pest control 3217

Bajra (see Pearl millet)

Bakerdania
Formicidae, phoresy 1171
USSR 1171

Bakkenolide-A, antifeedants, *Peridroma saucia* 4599

Balanococcus, taxonomy 8209

Balclutha hortensis, predators 667

Bald cypress (see *Taxodium distichum*)

Balsam fir (see *Abies balsamea*)

Balsamita major (see *Tanacetum balsamita*)

Bamboos
Aphididae, India 3648
Arcofacies maculatipennis, China 2585
Ceratovacuna japonica, Japan 8442
Coccoidea, China 9517
commodities, *Niphona furcata*, China 1420
Cyrtotrachelus longimanus, China 9518
Delphacidae, China 9515
forests, Coccinellidae, China 8414
habitats, Braconidae, India 3648
Hemiptera
 China 8414
 Malaysia 9519
insect pests, India 1416
Ischnaforinia bambusicola, China 3642
Isoptera 1417
Lygaeidae, China 8440

Bamboos *cont.*
Niphona furcata, China 1420
Pantana sinica, China 9516
pest control 1416
plantations
 Camponotus kiusiuiensis, Japan 2584
 Polyrhachis, Malaysia 9519
 Taraka hamada, Japan 8442
 Takecallis himalayensis, India 2967

Bambusa, *Ischnaforinia bambusicola*, China 3642

Bambusa vulgaris, *Acarhynchus bamboovegrans*, India 10738

Bambusaspis
bamboos, China 9517
parasitoids 9517

Bambusoideae, *Nikkoaspis simaoensis*, China 3643

Banana bunchy top virus
reviews 8655
vectors, *Pentalonia nigronervosa* 5761, 8655, 10740

Bananas
arthropod pests, Asia 3416
Chaetanaphothrips orchidii 6459
Cosmopolites sordidus 5762, 8027
 Brazil 4795-4796
 Colombia 583
 Cuba 2777
 New South Wales 7758
 Puerto Rico 3823
 varietal susceptibility 1593
Curculionidae, Ivory Coast 8654
Drosophila longivittata, India 10659
Drosophila spinifrons, Africa 11617
Odoiporus longicollis
 India 2778
 varietal susceptibility 10741
Pentalonia nigronervosa 8656, 10740
pest control, Philippines 9729
plantations, *Tetramorium guineense*, Cuba 2777
Stephanitis typica, resistance 1592
Toxoptera odinae 6626
Typhlodromalus tenuiscutus, Peru 5763

Bancol (see Bensultap)

Bangasternus orientalis
control, *Centaurea* 6630
USA 6630

Bangladesh
Cicer arietinum, insect pests 1675
mangoes, insect pests 1594
Megarrhamphini 2649
Scirpophaga incertulas 11562
Tribolium confusum, parasitoids 10025
vegetables, pest control 6854

Banisia myrsusalis elaralis, *Manilkara hexandra*, India 1883

Bankia
Araucaria, wood, Brazil 11890
ecology, distribution 11890

Bankia campanellata
Araucaria, wood, Brazil 11890
ecology, distribution 11890

Bankia gouldii
Araucaria, wood, Brazil 11890
ecology, distribution 11890

Banksia, *Arotrophora arcuatalis*, Western Australia 11778

Banksia spinulosa, *Arotrophora canthelias*, Victoria 9504

Baptisia leucantha, *Apion rostrum*, damage 4595

Barathra brassicae (see *Mamestra brassicae*)

Barbara colfaxiana
control, insecticides 2999, 5998
ecology, distribution 10008
parasitoids 6001
Pseudotsuga menziesii
 British Columbia 5998, 6001, 6003, 10008
 California 2999
 sampling 6003, 10008

Barbus stigma, insecticides, effects 9072

Bardistus cibarius, insects as food, Australia 1356

Bareogonalos canadensis
hosts, Vespidae 3531

Bareogonalos canadensis *cont.*
taxonomy 3531

Barichneumon bilunulatus
biology 7505
hosts, Lepidoptera 7505
Spain 7505

Barichneumon parvulus
hosts, *Strymonidia iyonis* 2957
Japan 2957
taxonomy, new species 2957

Barichneumon strymonidiae
hosts, *Strymonidia w-album* 2957
Japan 2957
taxonomy, new species 2957

Barichneumon tanakai
hosts, *Celastrina argiolus* 2957
Japan 2957
taxonomy, new species 2957

Bariinae, taxonomy 3246

Baris laticollis
control, insecticides 10767
rape, France 10767

Barley (*Hordeum* spp.)
Agromyza cinerascens, China 2603
Aphididae 1428, 1445, 5684, 7600-7601, 10550
Ethiopia 10554
Europe 8071
German Democratic Republic 8447, 10579
New Zealand 10551, 10581
Poland 8466
resistance 5609
Romania 4614
Spain 8454
Syria 5596
Yemen 4652
arthropod pests, Italy 11636
Cephus, Morocco 6701
Cerodontha, German Democratic Republic 397
Chlorops pumilionis, Switzerland 10570
Chromatomyia fuscula, yield losses 5610
Cicadulina chinai, Egypt 10552
commodities
 Coleoptera 11029
 German Federal Republic 3049
 Minnesota 7108
 Ephestia kuehniella 1903
 insect pests, Minnesota 11880
 insecticides, residues 7105
 Psocoptera, Manitoba 1902
 Sitotroga cerealella, varietal susceptibility 6043
 Tribolium confusum 11039
Diuraphis noxia 3658
 North America 4601
Eurygaster integriceps, Iran 3649
fields
 arthropods, German Federal Republic 2623
 Carabidae, German Federal Republic 2599
 Hymenoptera, Iran 3649
 parasitoids, Brazil 5601
 predatory arthropods, Sweden 8472
 predatory insects, German Federal Republic 2597
Gastropoda, Belgium 6627
insect pests, New Zealand 10553
insecticides, toxicity 2044
intercropping
 Cicer arietinum, pest control 5833
 peas, pest control 643
Liriomyza trifolii, damage 5686
Melanoplus sanguinipes 4440
Nilaparvata lugens 9589
Noctuidae, Brazil 5601
Oscinella, varietal susceptibility 1447
Oscinella pusilla, resistance 10582
oxamyl, translocation 7171
pest control
 German Democratic Republic 7599
 USSR 398
pests, UK 10190
Phyllotreta vittula 6707
Rhopalosiphum maidis
 India 3664
 USA 9552

Barley cont.

- Rhopalosiphum maidis* cont.
varietal susceptibility 5611
- Rhopalosiphum padi* 5680
resistance 1446
Sweden 8472
UK 10959
- Schizaphis graminum* 10578, 10976
interactions 7677
resistance 2609
varietal susceptibility 367
- Sitobion avenae*, Italy 2604
- Sitodiplosis mosellana*, Finland 9535
slugs, UK 370
- Symphyta, Poland 7589
- Barley yellow dwarf luteovirus**
vectors
Aphididae 1428, 1445, 2634, 5596,
7600-7601, 8454, 10542,
10550-10551, 10569, 10576,
10579, 10581
insects 10553
Rhopalosiphum 1429
Rhopalosiphum maidis 9552
Rhopalosiphum padi 1443-1444,
3084, 5594, 5684, 9486
models 8471
Sitobion avenae 8465
- Barnyard grass** (see *Echinochloa crus-galli*)
- Barytettix psolus*, physiology, endocrine system 7371
- BAS-263 I** (see Cloethocarb)
- Basidiobolus**
arthropods, interactions 8999
hosts, Aphididae 3114, 3116
nontarget effects, *Cycloneda limbifer* 2516
- Basidiobolus ranarum**
arthropods, interactions 8999
identification, immunology 6066
- Bassa** (see Fenobucarb)
- Bassazinon** (see Diazinon, with fenobucarb)
- Bassia latifolia**
oils, toxicity, wheat, commodities, insect pests 5099
Tenuipalpus bassiae, India 2965
- Bastardia viscosa**, *Heliothis virescens*, United States Virgin Islands 8716
- Basudin** (see Diazinon)
- Bathyoelia thalassina**
biology, environmental factors 4947
cocoa, Nigeria 4947
- Bathyphantes gracilis**
fields, Netherlands 6526
monitoring, traps 6526
pesticides, effects 6526
- Bathyplectes curculionis**
hosts, *Hypera postica* 3739, 11608
lucerne fields
India 3739
Oklahoma 11608
- Bathythrix kuwanae**
China 6551
hosts, *Oulema oryzae* 6551
- Batocera horsfieldi**
control, microbial pesticides 1870
forest trees, China 1870
- Batocera rufomaculata**, *Grandiella batocerae*, interactions 2144
- Batrachedra amydraula**
control, growth regulators 1544
dates, Israel 1544
- Batrachedra pinicolella**, pheromones 2225
- Batrachomorphus angustatus**
grapes, Victoria 2710
plant pathogens, transmission 2710
- Battus philenor**
Aristolochia
Texas 7409
USA 10333-10334
biology
behaviour 7409, 10333-10334
nutrition 10338
- Battus polydamas**
Aristolochia triangularis 3829
plant extracts, effects 3829
- Bauhinia**
Caryedes spyripygus, Venezuela 3083

Bauhinia cont.

- Caryodon bauhinidus*, India 6270
- Bauhinia rutilans*, *Caryedes viridipennis*, South America 3083
- Bauhinia siqueirae*, *Caryedes canthylo-gaster*, Venezuela 3083
- Bauhinia variegata*, wood, *Psammotermes hybostoma*, damage 3067
- BAY-SIR 8514** (see Triflumuron)
- Bayeria thymicola*, *Thymus*, Italy 11523
- Baygon** (see Propoxur)
- Baythion** (see Etrifos)
- Baythroid** (see Cyfluthrin)
- Bayvarol**, control, *Varroa jacobsoni* 6524
- Bdellidae**, woody plants, habitats 10469
- Bean common mosaic potyvirus**
vectors
Aphididae 10789
Aphis fabae 8695
- Bean golden mosaic geminivirus**
vectors
Bemisia tabaci 10784
control, insecticides 11713
- Bean leaf roll luteovirus**, vectors, *Myzus antirrhini* 7790
- Bean pod mottle comovirus**
vectors
Chrysomelidae 5815
Coleoptera 5103
- Bean yellow mosaic potyvirus**
vectors
Aphididae 5125, 7790
Aphis chloris 3612
Aphis craccivora 5802
- Beans**
arthropod pests, Florida 4166
Bemisia tabaci, India 2817
Cerotoma arcuata 3878
Delia platura, varietal susceptibility 5801
Epilachna varivestis, Mexico 632
Epilachninae, Mexico 630
fields, *Micraspis discolor*, India 1307
Hishimonus sellatus, China 11657
insect pests
Cuba 5548
Mexico 402
Megalurothrips usitatus, Taiwan 3874
Tetranychus urticae 4847
Thrips palmi, Martinique 3838
- Beauveria**
hosts
fruits, insect pests 3113
Helicoverpa armigera 5826
Hepialus gracilis 7023
- Beauveria bassiana**
alkaloids, effects 878
control
Castnia licus 6684
Diprionidae 9954
forest pests 7916
insect pests 5115
Leptinotarsa decemlineata 3901,
6928, 8997
Lissorhoptrus brevisrostris 8507
Lymantria dispar 4032
Melolontha melolontha 6111
Otiorynchus ligustici 1409
Plectrodera scalator 3984
culture techniques 4239, 4795, 5106,
5115, 7916, 8984, 11925
enzymes 879
analysis 3086
genetics
DNA, characterization 4123
genetic transformation 11085
germination 8987
hosts
Anthonomus grandis 2913
Aphididae 9523
Apis mellifera 11076
Aproaerema modicella 8723
arthropods 3096
Atta sexdens 7480
Bombyx mori 289, 11498
Brontispa longissima 5696
Cerotoma arcuata 10056
Chrysomelidae 11004
Chrysoperla carnea 4138
Conotrachelus 4949
Cosmopolites sordidus 4795

Beauveria bassiana cont.

- hosts cont.
Cydia pomonella 8610
Cylas formicarius 4889, 10835
Diatraea grandiosella 9558, 11551
Diadlosa armigera 5663
Drosicha mangiferae 4801
Elasmopalpus lignosellus 7151
Galleria mellonella 10069, 11914
Helopeltis theobromae 761
Hemiptera 8514
Holotrichia 4858
Indarbela 4799
insect pests 11905
insects 3086, 3878, 6684, 8984,
9730
Leptinotarsa decemlineata 8755
Nezara viridula 8971
Pantorhytes plutus 4950
Plutella xylostella 10057
Reticulitermes flavipes 11950
Rivula 8713
Scapteriscus 1519
Solenopsis 6512, 8322
stored products pests 6032
Strobilomyia anthracina 5997
mixtures, control, *Leptinotarsa decem-lineata* 2873
morphology 10062
pathogens 11083
persistence 10069
pest control 1966, 3105
pesticides, effects 5110
plant extracts, antifungal agents 11498
production 6928, 7160
properties 4096
serotypes 1960
soil, Finland 6099
storage 2913
testing 11100
toxins 3105
- Beauveria brongniartii**
control
Anoplophora malasiaca 9704
Castnia licus 6684
culture techniques 4239
morphology 10062
pest control 3105
serotypes 1960
- Beauveria tenella**, control, *Anoplophora malasiaca* 1587
- Bebbia juncea**, insects, California 6655
- Beckerias**
morphology 8203
taxonomy 8203
- Beckerias pannonicus**, taxonomy, syno-nyms, *Cephalops curtifrons* 8203
- Bee houses**, Scarabaeidae, South Africa 10475
- Beech** (see *Fagus*; *Nothofagus*)
- Bees** (see Apidae)
- Beeswax**, pesticides, residues 11210
- Beet cryptic II cryptovirus**, vectors, Aphididae 5770
- Beet mild yellowing luteovirus**
vectors
Aphididae 5770
Myzus persicae 5838
- Beet western yellows luteovirus**
vectors
Aphididae 1398
control, insecticides 1613
- Beet yellows closterovirus**
vectors
Hemiptera 11902
Myzus persicae 673, 5837-5838
- Beetroots** (*Beta vulgaris*)
Agrotis segetum, Denmark 3832
Aphididae 5770
Chromoderus affinis, damage 5835
habitats, *Telenomus remus* 8370
Spodoptera litura 8370
- Beets** (*Beta vulgaris*)
arthropod pests
Italy 11635-11636
Sardinia 11620
Lixus juncii 6458
- Belgium**
Acari 10706
agricultural research, reports 9136
Araneae 4693

Belgium cont.
Carabidae 8876, 10446
cereal grains, arthropods 11033
crops, pest control 4236
Cryptostigmata 11011
Curculionidae 1876
Delia radicum 603, 9770
Deroceras reticulatum 357
field crops, Gastropoda 6627
Formica cunicularia 10411
Formicidae 2432, 9621
Frankliniella occidentalis 7007
greenhouse crops, insecticide residues 592
Ips typographus 2991
Orchesella cincta 10138
Orsillus depressus 1878
pears, arthropods 560
pesticides, books 4236
pome fruits, arthropod pests 10693
small fruits, arthropod pests 10671
strawberries, pests 10673
sugarbeet, research, conferences 12033
Trichotichnus 4532
vegetables, reports 10219

Belize
Cerambycidae 1401
Coleoptera 9329

Bell peppers (see *Capsicum annuum*)

Bellaltica, taxonomy, new genus 3981

Bellaltica sarae
forests, Western Australia 3981
taxonomy, new species 3981

Bellaltica specula
forests, Western Australia 3981
taxonomy, new species 3981

Belofos (see Pirimiphos-methyl)

Belvosia
coffee, plantations, Costa Rica 3948, 4953
hosts, *Rothschildia orizaba* 3948, 4953
Belvosia nigrifrons, coffee, plantations, Costa Rica 4953

Belytinae
Europe 7518
taxonomy 7518

Bembidion, pesticides, effects 2623

Bembidion femoratum
cabbages, fields, Poland 7780
herbicides, effects 7780

Bembidion lampros
barley, fields, Sweden 8472
biology, overwintering 8472
cabbages, fields, Poland 7780
cereals, fields, Denmark 4616
herbicides, effects 7780
prey
Aphididae 4616
Rhopalosiphum padi 8472

Bembidion properans
cabbages, fields, Poland 7780
herbicides, effects 7780

Bembidion quadrimaculatum
biology, behaviour 11750
cabbages, fields, Poland 7780
herbicides, effects 7780
onions, fields, Michigan 11750
prey, *Delia antiqua* 11750

Bembidion quadrimaculatum oppositum
biology, behaviour 8733
carrots, fields, Quebec 8733
prey, *Listronotus oregonensis* 8733

Bembix
distribution, Arab countries 11459
morphology, sense organs 6273
taxonomy 11459

Bemisia
control 10900
Euphorbia pulcherrima 10900
taxonomy 2148

Bemisia afer, distribution, China 5389

Bemisia tabaci
aubergines, India 6946
beans, India 2817
biology 997
behaviour 9301
development 8666, 9870
migration 7764
phenology 3869
Capsicum annuum, Mexico 7845
checklists, Bermuda 153

Bemisia tabaci cont.
Colombia 2148
control 4972, 7004, 10844, 10902
biological control 2946, 3965, 11780
cultural control 4854, 6965
insecticides 997, 1648, 2928, 3933-3934, 3939, 5891, 6966-6967, 6980, 7879, 9885, 10863, 11691
integrated control 634, 1712, 5170, 10847
physical control 11708
plant oils 7764
cotton 6946, 6974, 10859, 11770
Arizona 6980
Cameroon 3939, 7879
India 1725, 3933-3934, 5891, 8773, 9870, 10863
Israel 8781
resistance 4930
Sudan 6965-6967, 7167, 9885
Turkey 2910

crops
Cape Verde 151
Dominican Republic 5170
Cucurbitaceae 5797
distribution
Bermuda 4976
maps 6454
ecology, population dynamics 1736, 10790
Euphorbia pulcherrima, German Federal Republic 11780
Euphorbiaceae, German Federal Republic 7005
fertilizers, effects 1648
food plants 153, 8666
Arizona 7764
Canada 9925
India 4088, 6533
Turkey 1736
genetics 997
German Federal Republic 7004
greenhouse crops, Norway 8809
greenhouses, Norway 10902
growth regulators, toxicity 8781, 8809
insecticides
effects 1725
toxicity 6974, 10859
Israel 2148
jute, Pakistan 2928
Lablab purpureus, India 3869, 10786
lettuces 10754
melons, California 11708
monitoring, traps 7893, 8773
morphology, mouthparts 3252
okras, India 11691
ornamental plants, Denmark 2946
outbreaks 2817
parasitoids 997, 3498, 6533, 7005
Phaseolus vulgaris
Brazil 10784
Cuba 634, 10790
pheromones 9301
plant density, effects 4863
plant pathogens, transmission 1648, 1711, 1919, 1924, 4088, 5797, 7764, 7845, 10754, 10779, 10784, 10786, 10846-10847, 11708
poinsettias 4976, 7893
German Federal Republic 3965
Israel 4972
Polyphagotarsonemus latus, interactions 6946
predators 4529
rearing techniques 10859
reviews 11770
row spacing, effects 11723
soyabeans
India 4854, 4863, 11723
Turkey 1664
taxonomy 2148
tomatoes 10846
Central America 1712
Israel 10847
New Zealand 10844
Vigna radiata
India 1648
Sri Lanka 6888
watermelons 10779

Bendhi yellow vein mosaic virus, vectors, *Bemisia tabaci* 4088

Bendiocarb (2,2-dimethyl-1,3-benzodioxol-4-yl methylcarbamate)
control
grapes, Hemiptera 1552
Nephotettix virescens 9584
rice tungro virus, vectors 9583
Scarabaeidae 9626
Schistocerca gregaria 188
degradation, soil 9099
residues, soil 5213
resistance, *Scirtothrips citri* 11163
toxicity
Brevicoryne brassicae 4181
Diabrotica undecimpunctata 9099
sunflowers, commodities 4912

Beneficial arthropods
acaricides, effects 5738
apples
orchards
India 1561, 8601
Massachusetts 8617
USSR 5738
cereals, fields, USSR 901
checklists 11245
China 11382
Cicer arietinum, fields, India 2851
Citrus, orchards, India 4782
conservation 4727, 6585
conservation tillage, effects 8410
Crotalaria, habitats, Puerto Rico 1527
data banks, catalogues 4237
dates, plantations, Israel 4711
ecology, population dynamics 4681
field crops, habitats, German Federal Republic 7260
fields, Spain 9440
forests, Poland 4037
greenhouses 5862
Israel 10847
insecticides
effects 2733
toxicity 3163
lucerne, fields, Italy 9631
meadows, German Federal Republic 4681
monitoring, traps 4681
orchards, USSR 526
peaches, orchards, Italy 2751
pesticides
effects 2742, 6584
books 10174
models 3538
reviews 10089
toxicity 8125
plant extracts, effects 9050
plums, orchards, India 4763
quality controls, reviews 9449
rearing techniques 712
vineyards
Austria 9659
Switzerland 5714
walnuts, orchards, Mexico 2717
weeds, interactions, reviews 10518

Beneficial insects
avocados, orchards, Queensland 7743
Baccharis halimifolia, interactions 1391
cabbages, fields, USSR 2804
cassava, fields, Congo 5852
coffee, plantations, Brazil 9893
coniferous forests, Ontario 8862
cotton, fields, Africa 7265
crops, fields, USSR 8412
ecology, population dynamics 10518
German Democratic Republic 206
greenhouses, USSR 213
legumes, fields, Kentucky 10439
Libya 3407
maize, fields, Georgia 7608
Phaseolus vulgaris, fields, Brazil 9785
rearing techniques 11409
rice, fields, China 5640
sorghum, fields, South Africa 1508
soyabeans
fields
Brazil 4855
India 8713
Kentucky 5819
storage 11409

- Beneficial insects cont.**
Tilia, toxicity 206
 vegetation, effects, reviews 9434
 weeds, interactions, reviews 10518
- Benfuracarb** (2,3-dihydro-2,2-dimethyl-7-benzofuranyl 2-methyl-4-(1-methylethyl)-7-oxo-8-oxa-3-thia-2,4-diazadecanoate)
 control
Agrotis ipsilon 4942
Epitrix hirtipennis 9890
 effects, sugarbeet 11740
 thiram, interactions 10815
 toxicity, *Somaticus* 5627
- Bengal gram** (see *Cicer arietinum*)
- Bengalia lateralis**
 prey, *Odontotermes* 2524
 Sri Lanka 2524
- Benin**
 Lepidoptera 10602
Maruca testulalis 9795
Ootheca mutabilis 5810
Phenacoccus manihoti, parasitoids 11746
Prostephanus truncatus 3055
Vigna unguiculata, insect pests 6885
- Benincasa cerifera** (see *B. hispida*)
- Benincasa hispida**
Diaphania indica, China 5782
Epilachna dodecastigma, Indonesia 2553
- Benlate** (see Benomyl)
- Benniseed** (see Sesame)
- Benomyl** (methyl [1-[(butylamino)carbonyl]-1*H*-benzimidazol-2-yl]carbamate)
 effects, *Drosophila melanogaster* 5190
 nontarget effects, soil, microorganisms 10123
 resistance, *Metarhizium anisopliae* 9001
 tolerance, *Metarhizium anisopliae* 10066
 toxicity, *Cycloneda sanguinea* 10462
- Benserazid**, effects, *Acheta domesticus* 9306
- Bensultap** (S,S'-[2-(dimethylamino)-1,3-propanediyl] dibenzenesulfonothioate)
 control
Liriomyza trifolii 11782
 rice, insect pests 8503
 toxicity, *Mythimna separata* 5668
- Benzaldehyde**
 attractants
Oryzaephilus 8153
Rhagoletis mendax 508
 pheromones, *Mythimna unipuncta* 75
- Benzenehexachloride**, effects, *Tetranychus urticae* 4184
- Benzimidazole**, effects, *Drosophila melanogaster* 11303
- Benzoximate** (benzoic acid anhydride with 3-chloro-*N*-ethoxy-2,6-dimethoxybenzenecarboximide acid)
 control, *Tyrophagus similis* 9746
 effects, *Azospirillum brasilense* 8119
 nontarget effects, predatory mites 9746
- Benzoyl peroxide**, toxicity, *Tribolium confusum* 4075
- Benzyl alcohol**, attractants, *Rhagoletis mendax* 508
- 6-Benzylaminopurine**, effects, *Tanacetum cinerariifolium* 7576
- 1-Benzyl-5-[(E)-2,6-dimethyl-1,5-heptadienyl]imidazole**, effects, *Bombyx mori* 10313
- 1-Benzyl-5-[(E)-2,6-dimethyl-1,5-heptadienyl]imidazole**, effects, *Mamestra brassicae* 9253
- Bephratelloides**
Annona 9734
 distribution, Venezuela 9734
- Bephroides maculicollis**
Annona muricata, Trinidad and Tobago 1596
 control 1596
- Berberine**, effects, Papilionidae 3829
- Berberis darwinii**
 habitats, *Centrodora scolypopae*, New Zealand 8559
- Berberis darwinii** cont.
Scolypopa australis, New Zealand 8559
- Berberomeloe**, taxonomy, new genus 6531
- Berberomeloe majalis**
 biology 6531
 distribution 6531
 hosts, Apoidea 6531
 taxonomy, from *Meloe* 6531
- Bergapten**, effects, *Depressaria pastinacella* 10813
- Berlin**
 agriculture, reports 8188
 arthropods 774
Pterostichus 9444
- Bermuda**
 Aleyrodidae 153
Bemisia tabaci 4976
 Coccinellidae 10452
Curtara bermudensis 11835
Danaus plexippus 6502
 Formicidae 2424
Pieris rapae, parasitoids 4828
 Psocoptera 8290
 Thysanoptera 152
- Bermuda grass** (see *Cynodon dactylon*)
- Besikia aelops**
 hosts, Pentatomidae 9596
 rice, fields, Puerto Rico 9596
- Bessa remota**
 hosts, *Artona catoxantha* 2701
 Malaysia 2701
 parasitoids 2701
- Besseyia plantaginea**, *Occidryas chalcidona*, Colorado 6628, 9913
- Beta vulgaris** (see Beetroots; Beets; Mangolds)
- Beta vulgaris** var. *saccharifera* (see Sugarbeet)
- Betacallis sikkimensis**
 India 2967
 morphology 2967
- Betasyrphus serarius**
 biology, behaviour 2679
 prey, Aphididae 2679
Vicia sativa, fields, Japan 2679
- Bethyloidea**, bibliographies 7248
- Betula**
Altea aenescens, France 2348
Argyresthia glaucinella, UK 9967
Deporaus betulae, damage 812
 Eriocraniidae, USSR 3046
 extracts, effects, Scolytidae 4035
Glyphina pseudoschrunkiana 5000
 habitats, invertebrates, USSR 3420
Heterarthrus nemoratus, Italy 3994
Stigmella, Denmark 1830
- Betula ermanii**, *Similipepsis takizawai*, Japan 9148
- Betula lenta**, *Polia latex*, West Virginia 5943
- Betula nana**
Eulecanium douglasi, USSR 4539
 Geometridae, Europe 7033
- Betula nigra**, *Hormaphis hamamelidis*, Virginia 7938
- Betula papyrifera**
 insect pests, interactions 3973
Papilio glaucus × *P. pilumnus* 4003
- Betula pendula**
Achlya flavicornis, UK 7040
Antheraea pernyi 3593
Eucera phis punctipennis, UK 9990
 insect pests 5931
 logs, insect pests, Finland 5916
- Betula platyphylla** var. *japonica*, *Similipepsis takizawai*, Japan 9148
- Betula pubescens**
Epirrita autumnata 3986
 Scandinavia 10003
 forests, *Formica*, Finland 7077
 logs, insect pests, Finland 5916
Symydobius oblongus, Finland 7077
Synanthedon scoliaeformis, UK 9969
- Betula pubescens** subsp. *tortuosa*, Symphyta, Finland 10969
- Betula utilis**, habitats, *Rhizophagus*, India 1820
- Betulaceae**
 Gracillariidae, New England 4024
Papilio alexiares, Mexico 10896
- Betulaceae** cont.
Papilio glaucus 6661
- Betulaphis hissarica**
 India 2967
 morphology 2967
- Betulaphis longicornis**
 India 2967
 morphology 2967
- BHC** (see HCH)
- α-BHC** (see α-HCH)
- γ-BHC** (see Lindane)
- Bhindi** (see Okras)
- Bhutan**
 Curculionidae 8847
Ips schmutzenhoferi 3017, 3039
 Pyralidae 7646
 rice, insect pests 7642
- Bi 58** (see Dimethoate)
- Bibio johannis**, distribution, British Isles 2349
- Bibio marci**
 distribution, British Isles 2349
 physiology, flight 8227-8228
- Bibio xanthopus**, grasses, Oregon 8530
- Bibionidae**
 distribution, British Isles 2349
 taxonomy 5252
- Bibliographies**
 Acari 2084
 agricultural entomology, India 7249
Anethum graveolens 2075
Artemisia pallens 2077
Azadirachta indica, pesticidal properties 5227
 cassava 9113, 11241
 pest control 2081
 Cicadellidae 10171
Clitoria ternatea 2076
 Coccoidea, Italy 9285
 Coleoptera 10166
 cotton 9115
 Cryptostigmata, Neotropical Region 10179
Diabrotica 11242
 Diptera 10167
 Czechoslovakia 12014
 forest trees, insect pests 8155
 Formicidae 12015
 taxonomy 11420
 fruits 9110-9111
 grasslands, pest control 2080
 Hydradephaga 6219
 Hymenoptera 5229, 7248, 10169
 insecticides, analysis 9117
 insects 10170
 Europe 9146
 Lepidoptera 10168
 maize, pest control 2083
 Membracoidea 7250
 M.L. Roonwal 7285
 ornamental plants 10888
Panolis flammea 8156
 pastures, tropics 9114, 12013
 pest control, Argentina 2079
Phaseolus vulgaris 5226, 9112, 11240
 Phasmida 4263
 plant protection 4221-4222
Pogostemon cablin 2078
 rice 9116
 root vegetables, pest control 2082
Solanum muricatum 9109
 soybeans 10799
Spodoptera frugiperda 5228
 wheat 10558
Zonocerus variegatus 4444
- Bicyrtes mendica**
 distribution, Chile 1340
 taxonomy 1340
- Bidens pilosa**, *Polyphagotarsonemus latus*, South Africa 7746
- Bidrin** (see Dicotophos)
- Bifenthrin**
 control
Agrotis ipsilon 4942
Anthonomus grandis 6982
 apples, arthropod pests 8612
Bemisia tabaci 7879
Brevipalpus phoenicis 3817
 cotton, insect pests 3939
Dolichotetranychus floridanus 8657
Maladera matrida 3909

- Bifenthrin** *cont.*
control cont.
Pectinophora gossypiella 6960
Sitodiplosis mosellana 9536
Tetranychus urticae 6995
Thrips tabaci 4897
effects
Aphis gossypii 5910, 10891
Rhizoglyphus robini 5187
residues, fruits 9696
resistance
Heliothis virescens 2915
Liriomyza trifolii 4966
Scirtothrips citri 11163
Tetranychus urticae 9058-9059
- Bignoniaceae**, extracts, effects, *Bruchidius atrolineatus* 7111
- Bilberries** (*Vaccinium myrtillus*)
Epirrita autumnata 3986
insect pests, damage 7714
- Billaea maritima**
hosts, *Cetonia aurata* 4516
Italy 4516
- Billaea subrotundata**
hosts, *Aromia moschata* 4516
Italy 4516
- Binapacryl** (2-(1-methylpropyl)-4,6-dinitrophenyl 3-methyl-2-butenolate)
control, Brevipalpus phoenicis 3817, 6838
mixtures
control, Tetranychus urticae 8770
nontarget effects, soil arthropods 1731
nontarget effects
Cheyletus malaccensis 1291
Phytoseiidae 6837
soil arthropods 1731
toxicity
Cryptostigmata 3162
Tetranychus urticae 1697
- Binema**, hosts, *Gryllotalpa africana* 6062
- Binodoxys**
hosts, Aphididae 2137
morphology 2137
taxonomy 2137
- Binodoxys communis**
hosts, *Aphis gossypii* 3927
parasitoids 3927
- Bioallethrin** ((1*R-trans*)-2-methyl-4-oxo-3-(2-propenyl)-2-cyclopenten-1-yl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate)
effects, cell cultures 976
nontarget effects 9137
- S-Bioallethrin** (*see* Allethrin, [1*R*-[1 α (*S*)*,3 β]]-)
- Biobit** (*see* *Bacillus thuringiensis* subsp. *kurstaki*)
- Biocontrol** (*see* Biological control)
- Biographies**, M.L. Roonwal 7285
- Biological control**
Asia, reviews 3427
biotechnology 8046
books 1001, 7282
conferences 10205
ecology, conferences 6240
Korea Republic 8049
organic farming, books 11256
reviews 6118
USA, reviews 10090
arthropods (*see also* Sterile insect release and individual pathogens)
Australia 1969
books 3220, 8164
Brazil 5157
Cape Verde 907
conferences 4244
Denmark 9024
Europe 6130
evaluation 10088
Finland, greenhouses 6123
Israel 1375
Italy 3129
Latin America 5160
methodology 9014
models 1970
Netherlands 1014
New Zealand 5158
quality controls 9449
reviews 8050, 9015, 11953
- Biological control** *cont.*
arthropods *cont.*
USA 4154
USSR 273, 908, 6117
books 12026
Adoxophyes orana 2731, 4740
Agrotis segetum 2929
Aleyrodidae 2946, 3965, 7004, 10900, 11780
Aonidiella aurantii 3815, 11664
Aphididae 213, 215, 4921, 6109, 6115-6116, 7278
reviews 7044
Aphis gossypii 3127, 5874
Aphis pomi 9690
apples, arthropod pests 8599
Aradus cinnamomeus 7905
Brontispa longissima 3760
Bruchophagus roddi 4695
cabbages, insect pests 8682
Chilo partellus 8520
Chilo sacchariphagus 364
Chromaphis juglandicola 6801
Chrysomphalus aonidum 3812
Citrus, insect pests 567
cotton
insect pests 4469
Lepidoptera 3126
crops, insect pests 4155
cucumbers, arthropod pests 621
Cydia nigricana 649
Cydia pomonella 544
Dendroctonus micans 5034
Diatraea 8450
Drosophila flavohirta 2992
Dryocosmus kuriphilus 7022, 9672, 9936
dung, Diptera 11596
Eldana saccharina 1422
Ephestia cautella 11020
Eriosoma lanigerum 6812
Formicidae 4153
Frankliniella occidentalis 3836, 3864, 10752
Gracillariidae 10705
greenhouse crops
arthropod pests 2786, 3835, 3865, 3964, 4156, 5237, 5799, 5862, 9017, 9019, 10750, 11113, 11686, 12026
insect pests 4245
Helicoverpa armigera 173
Heliothis 3123, 3130
Hemiberlesia lataniae 7743
Hemiberlesia pitysophila 6114
Heteropsylla cubana 7056
Homoptera 7156
Hypera postica 9640
Hypothenemus hampei, reviews 6987
Icerya purchasi 2767, 9016
Lepidoptera 2587, 4805, 4819, 6970, 6972, 10603, 10719, 11053
Leptinotarsa decemlineata 731, 2106, 4880, 4886, 8764
Loxostege sticticalis 322, 2552
Lymantria dispar 11815
Maconellicoccus hirsutus 8570
Melanaspis glomerata 7584
Meligethes aeneus 5786
Metopolophium dirhodum 2596
Monochamus alternatus 3967
Mononychellus tanajoa 7276
Myzocallis coryli 3772
Myzus persicae 6122
Nezara viridula 2303, 3744
Nipaeococcus filamentosus 3804
Noctuidae 11754
Operophtera brumata 9018
ornamental plants 7000
arthropod pests 2942, 11786
Ostrinia nubilalis 5630, 6713, 11542
Panonychus citri 5905, 11662
Panonychus ulmi 537, 5728, 5735, 6817
Phenacoccus manihoti 5852, 6934-6935, 9842, 10836, 11746
Phylacteophaga froggatti 5959
- Biological control** *cont.*
arthropods *cont.*
Pieris rapae 4828
Planococcus citri 7747
Plutella xylostella 5791
Pseudaulacaspis pentagona 581, 6112
Pseudococcidae, reviews 906
Pyralidae 9528
Pyrilla perpusilla 6689, 7585
Quadraspidiotus perniciosus 4737, 6810, 7709, 8601, 11433
Rastrococcus invadens 563, 6777
rice, insect pests 7703
Saissetia oleae 4790
Scapteriscus 1519, 5159
Scarabaeidae 6501
Siphoninus phillyreae 8914
Sirex noctilio 10937
Sitona 9014
Sitona discoideus 2685
Spodoptera frugiperda 403, 9561
stored products pests 1897
strawberries, arthropod pests 2704
sugarcane
insect pests 2457
books 6229
Tetranychidae 664, 4723, 4957, 5694, 5715, 7735
Tetranychus urticae 502, 8630
Thrips tabaci 622, 5798, 11706
Thysanoptera 3862-3863, 5774, 7786
Tortricidae 535
Trialeurodes vaporariorum 1277, 1710, 5775, 7002, 11687
models 3526-3527
Unaspis yanonensis 6832, 9703
vegetables, arthropod pests 12026
Yponomeuta 2720
Mollusca, *Deroceras reticulatum* 598
nematodes 1968
plant pathogens
mildews 2732
Rhizoctonia solani 4872, 10598
weeds 2557, 7556
Australia 1969
reviews 6660, 10517
USSR 6117
Acacia longifolia 6658
Ambrosia 6659
books 10194
Ambrosia artemisiifolia 4583, 6635
Baccharis halimifolia 1390
Centaurea 2570, 6630
Chondrilla juncea 1383
Clidemia hirta 11508
Compositae 1382
Convolvulus arvensis 1381
Eichhornia crassipes 3625-3626, 8431
reviews 10519
Eupatorium odoratum 2571, 5559, 8433
Eupatorium trapezoideum 3620
Lantana camara 4593, 4603
reviews 6633
Lonicera tatarica complex 1763
Mimosa pigra 8418, 8428
Pistia stratiotes 9492
Salsola australis 4590, 11511
Salvinia molesta 1376, 8416
Senecio jacobaea 8417
Sesbania punicea 1394
Sonchus arvensis 8419
Striga 9489
Tribulus cistoides 8429
- Biological control agents**
Ambrosia artemisiifolia, evaluation 4578
Baccharis halimifolia, evaluation 1391, 5557
Baccharis salicifolia, evaluation 4588
biology, reproduction 9014
Canada 10455
Caryedon serratus, evaluation 5831
Centaurea, evaluation 5558, 8191
Centaurea solstitialis, evaluation 1379, 6643
Chrysanthemoides monilifera, evaluation 6641

Biological control agents cont.

- Coccus pseudomagnoliarum*, evaluation 2756
- Elasmopalpus lignosellus*, evaluation 4640
- Euphorbia esula* evaluation 4586
surveys 4582
- Hawaii 1971
- Heliothis*, evaluation 1970
- Heliothrips haemorrhoidalis*, evaluation 4521
- herbicides, effects 10517
- Heteropeza pygmaea*, evaluation 8668
- Hypericum perforatum*, evaluation 3612
- Hypothenemus hampei*, evaluation 6986
- introduction, data banks 7156
- Lambdina fiscellaria*, evaluation 9975
- Leptinotarsa decemlineata*, evaluation 4880
- Lymantria obfuscata*, evaluation 5245
- Ommatolius moreleti*, evaluation 6521
- Opisina arenosella*, India 2701
- pesticides, effects, reviews 10089
- Physocephala vittata*, evaluation 8539
- Pieris rapae*, evaluation 5790
- Pistia stratiotes*, evaluation 2569, 5556
- plant parasitic nematodes, evaluation 6108
- plant pathogens, interactions 10517
- Pteridium aquilinum*, evaluation 11504
- Rastrococcus invadens*, evaluation 10658
- reviews 4152-4153
- Rhizoctonia solani*, evaluation 1925
- risk assessment 1967
- Rumex crispus*, evaluation 5575, 6629
- Salvinia molesta* evaluation 330
- insecticides, effects 10507
- Senecio madagascariensis*, evaluation 9490
- Sesbania punicea*, evaluation 1394
- Silybum marianum*, evaluation 5552
- Sitona discoides*, evaluation 6770
- stored products pests, evaluation 7986
- Striga hermonthica*, evaluation 9489
- Tetranychidae, evaluation 11745
- Tortricidae, selection 4736
- weeds
- evaluation 4587
- interactions, reviews 10518

Biology

- dictionaries 5230
- libraries, directories 5233
- Bioresmethrin** ((1*R*-trans)-[5-(phenylmethyl)-3-furanyl]methyl 2,2-dimethyl-3-(2-methyl-1-propenyl) cyclopropanecarboxylate)
- effects, stored products pests 3062
- nontarget effects
- evaluation 7303
- reviews 7303
- photostability 11959
- residues, foods 7303
- toxicity
- Rhyzopertha dominica* 5091, 5093
- stored products pests 5092
- Tribolium castaneum* 11959

Biosteres longicaudatus

- biology, behaviour 7504, 9398
- distribution, Costa Rica 4479
- fruits, habitats, Mexico 8636
- hosts
- Anastrepha obliqua* 10067
- Anastrepha suspensa* 10323, 11329, 11475
- Tephritidae 4479, 8636, 9398
- pathogens 10067, 11475
- radiation, effects 10323
- songs 7504
- Biosteres spinaciae**
- distribution, UK 5464
- hosts, *Pegomya* 5464
- Biosteres tryoni** (see *Diachasmimorpha tryoni*)
- Biosteres vandenboschi**
- hosts, *Carpomyia vesuviana* 6847
- India 6847

Biosystematics, entomology, Oriental Region 5409**Biotechnology**

- Baculoviridae, reviews 8015, 8033
- books 8165
- insects, symbionts, antimicrobial properties 3104
- microbial pesticides 1966
- plant protection 1965

Birch (see *Betula*)**Bird cherries** (see *Prunus padus*)**Birds**

- control, fruit trees, arthropod pests 538
- Eiton burchelli*, interactions 7486
- insecticides
- effects 3181, 3194, 4188, 4247, 6175, 6197, 7213, 7302, 9098, 10130, 10139, 11999
- residues 3190, 8110, 10125, 10148
- toxicity 8116, 8126
- insects, secretions, antifeedants 5295
- Ostrinia nubilalis*, interactions 4641
- pesticides, residues 968, 9086, 10135
- prey

- Achaea janata* 8765
- Acrididae 9368
- bilberries, insect pests 7714
- Caenoccephus aldrichi* 1402
- Coleophora dahurica* 7510
- Dendrolimus punctatus* 4023, 6110
- Eurosta solidaginis* 7568
- Helicoverpa armigera* 3891, 9820, 10059
- Jadera haematoloma* 5950
- Lymantria dispar* 1170, 1842, 4020, 7944, 8822
- Myzus persicae* 11524
- Panolis flammea* 8156
- Rhopalocera 9988
- Rothschildia orizaba* 3948
- Scarabaeidae 2338
- Siricidae 9983

Birlane (see Chlorfenvinphos) **α -Bisabolene**, attractants, *Reticulitermes lucifugus* 11489 **β -Bisabolene**, attractants, *Reticulitermes lucifugus* 11489 **β -Bisabolol**, effects, *Anthonomus grandis* 8772**Bischofia**, *Histia rhodope*, China 8435**Bishomomanicone**, mixtures, pheromones, *Manica rubida* 1234**Bishop pine** (see *Pinus muricata*)**Bissetia steniella**

- control
- biological control 9528
- physical control 1423, 5588
- parasitoids 6686
- sugarcane
- India 1423, 9528
- Pakistan 5588

Biston betularia, biology, behaviour 6417**Bitertanol**, effects, *Microtermes* 5511**Bitoxibacillin** (see *Bacillus thuringiensis* subsp. *thuringiensis*)**Bitter gourds** (see *Momordica charantia*)**Biturritidae**

- bibliographies 7250
- biology 7250
- morphology 7250
- natural enemies 7250
- taxonomy 7250

Bius estriatus

- Pinus ponderosa*, California 3983
- taxonomy 3983

Bivalvia, Teredinidae 11890**Bjerkandera fumosa**, *Hadraule blaisdelli* 10756**Biacinae**

- distribution 10232
- taxonomy 10232

Black cherries (see *Prunus serotina*)**Black currants** (*Ribes nigrum*)

- arthropod pests
- Belgium 10671
- Poland 8561
- Cecidophyopsis ribis* 6455
- varietal susceptibility 10676, 10687
- Cryptomyzus*, Netherlands 8562
- Kessleria rufella*, Poland 7442

Black currants cont.

- pest control
- Switzerland 5699, 5703, 5708
- USSR 484
- Plesiocoris rugicollis*, USSR 511
- Rheumaptera hastata*, USSR 5709
- Synanthedon tipuliformis*
- Australasia 8560
- Hungary 8560
- viruses, vectors, arthropods 5703
- Black gram** (see *Vigna mungo*)
- Black mustard** (see *Brassica nigra*)
- Black pepper** (see *Piper nigrum*)
- Black pine** (see *Pinus nigra*)
- Black spruce** (see *Picea mariana*)
- Blackberries**
- Acari, Switzerland 5700
- Agrilus ruficollis*, Arkansas 3761
- arthropod pests 9120
- Belgium 10671
- books 9120
- Eutorna phaulocosma*, New Zealand 4715
- habitats, *Centrodora scolypopae*, New Zealand 8559
- Leptophyes punctatissima*, UK 9984
- pest control, Switzerland 5699, 5701, 5703, 5707
- Scolypopa australis*, New Zealand 8559
- Sitobion fragariae* 11530
- Tortricidae 8546
- viruses, vectors, arthropods 5703
- Blackeye cowpea mosaic potyvirus**, vectors, Aphididae 10795
- Bladan** (see Parathion)
- Blaniulus guttulatus**
- control, insecticides 8728
- sugarbeet 8728
- Blaps**
- China 3627
- prey, *Adosomus* 3627
- Blapstinus**
- control, insecticides 3880
- soyabeans, Paraguay 3880
- Blaste dydyma**, host plants, Spain 8830
- Blastobasidae**
- Korea Republic 5047
- North America 5393
- taxonomy 5393
- Blastobasis**, taxonomy, synonyms, *Valentia* 5393
- Blastobasis glandulella**, taxonomy, from *Valentia* 5393
- Blastophagus piniperda** (see *Tomicus piniperda*)
- Blastotere thuiella** (see *Argyresthia thuiella*)
- Blastothrix confusa** (see *B. longipennis*)
- Blastothrix longipennis**
- habitats, Poland 5068
- hosts, *Parthenolecanium corni* 5068
- Blattisocius keegani**
- dates, commodities, damage 1913
- grain stores, Manitoba 11876
- insecticides, effects 11876
- Blattisocius tarsalis**
- biology 4068
- Libya 1545
- prey
- dates, insect pests 1545
- stored products pests 4068
- Blattodea**
- Argentina 11246
- biology 11246
- morphology 11246
- Blennocampinae**
- biology 7589
- cereals, Poland 7589
- taxonomy 3571
- Blepharidopterus angulatus**
- habitats, UK 6806
- prey, *Pterocallis alni* 6806
- Blepharipa pratensis**
- forests, Hungary 8851
- France 4016
- hosts
- Dendrolimus pini* 8851
- Lymantria dispar* 4016
- Blepharipa zebina**
- hosts, *Antheraea assamensis* 4557

- Blepharipa zebina** *cont.*
India 4557
- Blepharita satura**, biology, behaviour 5374
- Bleptina**
biology, development 6861
Pleurotus, China 6861
taxonomy 6861
- Bleptina confusalis**
Gramineae, Brazil 5601
natural enemies 5601
- Blepyrus annulobiquis**, taxonomy, syno-
nyms, of *Blepyrus insularis* 2459
- Blepyrus insularis**
guavas, fields, India 6849
hosts, *Ferrisia virgata* 6849
taxonomy, synonyms, *Blepyrus*
annulobiquis 2459
- Blissus insularis**, *Stenotaphrum*
secundatum, Texas 11593
- Blissus leucopterus**
control, insecticides 7613
maize, Louisiana 7613
sorghum 2382
- Blissus leucopterus leucopterus**
maize, Louisiana 9555
sorghum, resistance 5676
- Blue-stain fungi**, vectors, *Dendroctonus*
ponderosae 5064
- Blueberries**
Croesia curvalana, New Brunswick
2707
pest control, Washington 5698
Rhagoletis, Michigan 11616
Rhagoletis mendax
Michigan 4751
North America 1538, 3764, 8563
North Carolina 8555
Rhagoletis pomonella 6460
- Boarmia selenaria** (see *Ascotis selenaria*)
- Boehmeria**, *Maconellicoccus hirsutus* 6457
- Boehmeria nivea**, *Pomacea*, Philippines
454
- Boerhavia**, *Catorhintha*, America 349
- Boerhavia coccinea**, *Asphondylia*
boerhaaviae, galls 1386
- Boerhavia diffusa**, *Asphondylia*
boerhaaviae, galls 1386
- Boettgerilla pallens**, distribution, UK 308
- Bogs**, insects, New Zealand 4378
- Boletus**
Oxyporus lawrencei, Mexico 10755
Pallodes 600
- Bolitotherus cornutus**
evolution 5009
fungi, New York 5009
- Bolivia**
Argentinorhynchus kuscheli 7552
Chenopodium quinoa, insect pests 9606
Elasmopalpus lignosellus, parasitoids
4640
entomology 4434
- Bolstar** (see *Sulprofos*)
- Bolstar/SIR** (see *Sulprofos*, with
triflumuron)
- Bombaceae**, *Loncophorus*, Neotropical
Region 1027
- Bombax malabaricum**
Dystropicus madhyapradeshi, India
1841
wood
Isoptera, damage 1794
Psammotermes hybostoma, damage
3067
- Bombinae**
German Democratic Republic 206
Tilia, toxicity 206
- Bombus**
Aralia hispida, pollination 6450
biology, behaviour 6450, 10344
Maine 6450, 10430
Myrmecozelinae, interactions 11253
parasitoids 9395
predators 10430
Switzerland 9395
Vespula, interactions 6450
- Bombycidae**
Mesostigmata, interactions 2094
Pneumolaelaps longanalis, phoresy
4460
- Bombyliidae**
distribution, Saudi Arabia 145
- Bombyliidae** *cont.*
Palaeartic Region, books 5232
taxonomy 145, 5232
- Bombyx**, mulberries, USSR 10695
- Bombyx mori**
amino acids, effects 290, 8399
anatomy, colour 9479
biochemistry
endocrine system 10310
enzymes 10267
fatty acids 6366
peptides 3584, 7372
secretions 10493
biology 7288, 9676, 11497
behaviour 4563
development 1357, 2174, 6606,
6808, 8400, 9467, 11251
diapause 5527
sex ratio 1360
cell cultures 9221, 11411
cell lines 6604
insecticides, toxicity 10060
pathogens 10061, 11933
cloning 7145
replication 9469
cells, effects, *Bacillus thuringiensis*,
toxins 11947
chemicals, effects 9477
China 4562, 9478
diets 4560
food, man 1355
genetics 3594, 5528, 8262, 8400, 9480,
10317
gene expression 119, 1353
gene mapping 2290
genes 4351, 5531, 7396
conversion 298
genetic engineering 3108, 3590
genetic variation 1361
hybridization 293-294
mutants 9233
nucleotide sequences 4555
polymorphism 2287
population genetics 5529
prediction 3598
protein synthesis 6287
proteins 3356
RNA 5348
sex reversal 11493
growth regulators, effects 1357, 2274,
8149, 11496
hormones, bioassays 10313
India 6532, 6607, 10492, 10494
insecticides
pathogenicity 291, 1950, 7141,
9006, 11909, 11947
toxicity 7135, 8038
Japan 6094
moulting hormones, effects 7542
mulberries 1557-1558, 2236, 9467-
9468, 9677, 11497
Brazil 539
India 2729, 9676
mineral deficiencies 6808
parasitoids 6532, 6543, 6558, 6562,
10492
pathogens 289, 1363, 1366, 2538, 3108,
3590, 3594-3595, 3782, 4100,
4104, 4559, 4562, 5530, 6069,
6090, 6094, 6604-6605, 6607,
6609, 7542-7543, 9474-9475,
9478, 10064, 10488, 11080,
11087, 11094, 11102, 11497-
11498, 11931
resistance 10487
pheromones 5304
physiology 7539
chemical composition 289, 1124,
9480
development 1362, 6611
digestive system 3597, 5288
endocrine system 1115, 2180, 2264,
2271, 3332, 3581, 4556, 4564,
6361, 9221, 9252, 9468
enzymes 288, 290, 292, 2202, 3582,
3586, 4558, 6296, 9262
inhibitors 2191
immune response 6090
metabolism 11492
metamorphosis 2537
nutrition 9677
- Bombyx mori** *cont.*
physiology *cont.*
pigments 9233
proteins 113, 296, 1354, 2532,
3282, 6608, 8399, 9241
reproduction 2263
reproductive organs 2259, 3320
sense organs 3588, 9213
sex pheromones 3331
spermatozoa 2536
water relations 2236
predators 7084
preparation 7539
radiation, effects 9476
rearing techniques 3592, 4560, 5528,
6606, 9676, 10317, 10488-10489
silk, extraction 295
- Bombyxin**, synthesis 7372
- Bonavist beans** (see *Lablab purpureus*)
- Books**
Acari, research workers, Australasia
6232
acarology 10208-10209
Acrididae, Sahel 7277
Acridoidea, West Africa 7279
agricultural entomology, India, bibliog-
raphies 7249
agricultural research 6223
agriculture, ecology 12030
Aleyrodidae 6231
Ambrosia, biological control 10194
Aphididae 4233, 7278
predators, UK 7267
Apis mellifera, biology 6220
apricots 11244
aquatic insects, Australia 12031
aquatic organisms, UK 7268
Araneae, taxonomy 2101
arthropod pests, plants, interactions
11254
arthropods
checklists 11245
pesticides, nontarget effects 7271
senses 11260
avermectins 11247
avocados 2085
beneficial arthropods, pesticides, effects
10174
beneficial insects, forests 2097
biological control 1001, 7282
arthropod pests 8164
USSR 2335, 2516, 2844, 2894,
3114-3117, 3220
biology 5230
libraries 5233
biotechnology 8165
agriculture 6056
botanical insecticides 4228
Bruchidae, legumes 11270
Camellia, pest control 2114
Carabidae 8168
Ceratitis capitata, sex differentiation
10207
cereals
pests, UK 10190
yields 11120
chemicals, nontarget effects 12029
Cheyletidae 12017
Chile, arthropod pests 5231
Cicadoidea, Oceania 10239
Cicer arietinum, pest resistance 10202
Coccinea, Europe 1009
Coccinellidae, UK 7266
cocoa, insect pests, Brazil 7258
coconuts, research 6783, 10173
coffee 6221
Coleoptera
Australia 12032
stored products, Canada 7272
Turkey 1005
cotton
arthropod pests, Africa 7265
arthropods, Israel 7274
crops
insect pests, Brazil 7259
pest control 999
pests, Romania 11249
Cryptostigmata
Neotropical Region 10179
Oriental Region 6237
Dermaptera, catalogues 11250

Books cont.

- Dictyoptera 11246
 Diptera
 British Isles 7264
 Czechoslovakia, bibliographies 12014
 Israel 1174
 morphology, muscles 10195
 Oceania 3219
 Palearctic Region 5232
 plants, galls 10197
 USSR 12022-12023
 Dynastinae 8169
 entomology 3218
 information 10191
 Entomophthorales, USSR 12027
 Ericaceae 11243
 essential oil plants, India 6222
 field crops
 arthropod pests, Africa 1011
 pest control, German Federal Republic 7260
 pest resistance, USSR 12024
 foods, insecticides, residues, assessment 10176
 forests, hydrology, North Carolina 832-833, 836
 Formicidae 10192-10193
 Europe 1008
Fraus 9119
 fruit crops, France 2088
 fumigation, German Federal Republic 1004
 gardens, pest control 6230
 Gastropoda, UK 11257
 genetic engineering, release techniques 1741, 1981
 grapes
 diseases 9118
 mites, Europe 6228
Hevea brasiliensis 2086
 host parasite relationships 6234
 Hymenoptera 3215
 USSR 1010
 insect pests, migration, meteorology 7284
 insect viruses 8160
 insecticides, toxicology, statistics 7269
 insects
 conservation 8163
 forests 4242
 fungi, interactions 5240
 life cycle, evolution 2095, 2300
 nutrition, ecology 10206
 plants, interactions 6225, 8170
 surveys, India 10200
 taxonomy 1000
 insects as food 8162
 integrated pest management 7281
 teaching materials 7286
 invertebrates
 cell cultures 3216
 development 11251
 history 2096
 nomenclature, UK 1012
 reproduction 10181
 Isoptera, China 10175, 10177
 legumes, insect pests 3868
 Lepidoptera
 British Isles 1003
 Europe 8166
 USSR 1006, 10187
Litchi chinensis 8158
Megaselia, British Isles 7263
 Mesostigmata, USSR 2094
 metals, effects, invertebrates 4229
 M.L. Roonwal, biographies 7285
Mononychellus tanajoa, Africa 7276
 museums, pest control 3214
 mushrooms 8159
 pest control 7283
 natural enemies, data banks 4237
 Noctuidae, USSR 10201
 oil palms 3213
 Orchidaceae 7252-7253
 organic farming, pest control, products 11256
 ornamental plants 10172
 ornamental woody plants, pests, North America 8167
 Orthopteroidea, British Isles 7255

Books cont.

- pastures 6759-6760, 6768, 6774
 pears 2092
 pest control 6227
 Africa 11258
 alternative farming 3217
 Azadirachta indica 5234
 bacterial insecticides 10196
 India 12021
 tropics 4230
 USA 7256, 11259
 pest resistance 10178
 pesticides 11248, 12020
 Belgium 4236
 formulations 2108
 France 10185
 law, UK 7270
 monitoring, organizations 7280
 safety 2098
 Tanzania 4223
 pheromones 2074, 8161
 USSR 1007
 plant breeding, reviews 9121
 plant pathogens, soil, biological control 8052
 plant pathology 11061, 11129
 tropics 8696
 plant protection 4224
 chemicals, controlled release 10188
 chemistry 10182
 Europe 10199
 Pompilidae, British Isles 7261
 potatoes, pest control, USSR 12025
 Prosobranchia 11257
 Psylloidea, Panama 10240
 rangelands, entomology 11255
 raspberries 2090
 pest resistance 9122
 Rhopalocera
 Europe 11262
 Florida 8171
 Israel 7275
 rice, research 6737-6738, 11267
Rubus 9120
 semiochemicals 1002
 small fruits, pest control 10186
 social insects
 biology 10189
 Israel 1173
 sorghum 2102
 spice plants, arthropod pests 6233
Spilosoma obliqua, rearing techniques 3462
 spraying equipment, Norway 7251
 stored products
 insect pests, identification 4232
 pesticides, residues 10184
 stored products pests 11261
 sugarcane
 diseases 2099
 pest control 6229
 temperate fruits, production 7254
 Tephritidae 4234-4235
 British Isles 7262
 timbers, insect pests 6244
 Tineidae, USSR 11253
 trees, insect pests 8827
Trifolium repens 2689, 7257
 vectors, research 11564, 11899-11902, 12019
 vegetables 2089
 Africa 2091
 pest control, USSR 12026
 pests, USSR 6226
 Vespinidae, biology 11263
 Vicia faba, Netherlands 12016
 viticulture 8157
 walnuts, pest control 2093
Boottettix argentatus
 Larrea tridentata, California 11527
 physiology, sense organs 4435, 11527
 Boraginaceae, *Cynthia cardui* 323
Borago officinalis, *Autographa gamma*, UK 8808
Borbo cinnara, food plants, Japan 6750
 Bordeaux mixture
 control, *Physokermes jezoensis* 5936
 inhibitors, *Verticillium lecanii* 9898
 Borecole (see Kale)
Boreogadus saida, insecticides, residues 11224

Boric acid

- mixtures, toxicity, *Tribolium castaneum* 4173
 toxicity, *Tribolium castaneum* 4173

Borneo (see Kalimantan)**Borreria hispida**

- Aleurocanthus indicus*, India 10511
Haplothrips nigricornis, pollination 2574

Boschniakia hookeri, Pegomya

- hyperparasitica*, Washington 3609-3610

Bostrichidae

- anatomy, sensory organs 3251
 forest trees, Solomon Islands 838
 North America 3557
 parasitoids 3557

Bostryx conspersus

- biology 1371
 morphology 1371
 natural enemies 1371
 Peru 1371

Boswellia serrata, extracts, effects, *Dysdercus similis* 7229**Botanical insecticides**

- books 4228
 pest control 3167

Bothriochloa, Sitobion miscanthi, India 3648**Bothriochloa ischaemum var. ischaemum**, *Conioscinella nuda*, Oklahoma 5678**Bothynoderes punctiventris**

- control
 cultural control 2858
 insecticides 2857, 6912
 physical control 8730
 pathogens 2858
 sugarbeet

- USSR 674, 2857-2858, 8730
 Yugoslavia 6912

Botryandromyces heteroceri, hosts, *Heterocerus fenestratus* 5567**Botrytis cinerea**

- Diptera, interactions 10915
Epiphyas postvittana, interactions 1551
 insecticides, effects 10661, 11206
 vectors, *Lobesia botrana* 7716

Botswana

- Orthoptera, reports 2116
Salvinia molesta, biological control agents 10507

Scarabaeidae, ectoparasites 5459**Bottle gourds (Lagenaria siceraria)**

- Aphis gossypii* 3861
Aulacophora foveicollis, food preferences 1630

Brinckochrysa scelestes 11467

- Diaphania indica*, China 5782
 fields, Hymenoptera, India 9740
 insecticides, toxicity 8688

Bougainvillea, extracts, chemosterilants, *Dysdercus cingulatus* 9869**Bouteloua gracilis**, Acrididae, Arizona 3730**Boverol (see Beauveria bassiana)****Box (see Buxus)****Boysenberries, Eutorna phaulocosma**, New Zealand 4715**BPMC (see Fenobucarb)****Brachiaria**

- Cercopidae, resistance 2674
Zulia colombiana, varietal susceptibility 1512

Brachiaria brizantha

- Cercopidae, resistance 4679
Zulia colombiana, varietal susceptibility 1512

Brachiaria decumbens

- Cercopidae
 Brazil 4691, 6752
 resistance 4679
Deois flavopicta, Brazil 4690
Spodoptera frugiperda, Louisiana 6697
Zulia colombiana, varietal susceptibility 1512
Zulia entreriana 4692
 Brazil 4686, 6754, 9617-9618

Brachiaria dictyoneura, Zulia colombiana, varietal susceptibility 1512**Brachiaria humidicola**

- Cercopidae, resistance 4679

Brachiaria humidicola *cont.*
 Zulia colombiana, varietal susceptibility 1512

Brachiaria ruziziensis
 Cercopidae, resistance 4679
 Zulia colombiana, varietal susceptibility 1512

Brachmia macroscopa, pheromones 5299

Brachycaudus, taxonomy 4764

Brachycaudus cardui
 Cirsium arvense, German Federal Republic 3611
 ecology, population dynamics 3611

Brachycaudus helichrysi
 biology, phenology 4676
 control
 insecticides 2690
 microbial pesticides 775
 fruits, German Democratic Republic 2690
 greenhouse crops, German Democratic Republic 775
 monitoring, traps 4676
 plant pathogens, transmission 10830
 potatoes, Switzerland 10830
 sorghum, Venezuela 4676
 strawberries, Norway 10674
 Urtica parviflora, India 1387

Brachycaudus persicae
 food plants 4764
 taxonomy 4764

Brachycaudus persicaecola
 peaches 4764
 taxonomy 4764

Brachycaudus semisubterraneus
 plums, German Democratic Republic 4764
 taxonomy 4764

Brachycera
 Czechoslovakia 6451
 morphology, muscles, books 10195
 Nearctic Region 4225
 taxonomy 4225
 USSR 3460
 wheat, fields, Yugoslavia 8462

Brachycerus granulatus
 control 1671
 groundnuts, Senegal 1671

Brachychiton populneus, *Idaethina froggatti*, New South Wales 11806

Brachycolus asparagi (*see Brachycorynella asparagi*)

Brachycorynella asparagi
 asparagus
 Italy 8664
 Washington 1608
 control 8664
 insecticides 1608
 plant pathogens 1607

Brachyderinae, taxonomy 3246

Brachygastra
 coffee, plantations, Brazil 9893
 prey, *Perileucoptera coffeella* 9893

Brachygastra lecheguana
 biology 6753
 morphology 6753
 pastures, Brazil 6753

Brachyleptura stragulata
 biology 7020
 Pinus, Spain 7020
 rearing techniques 7020

Brachymeria
 hosts
 Eueides isabella 5755
 Parasa viridissima 1542
 Nigeria 1542
 passion fruits, orchards, Brazil 5755

Brachymeria excarinata
 forests, India 10980
 hosts, *Pteroma plagiophleps* 10980

Brachymeria intermedia
 attractants 9403
 biology, behaviour 9403
 forests, France 3012
 France 4016
 hosts, *Lymantria dispar* 3012, 4016, 9403

Brachymeria lasus
 attractants 7526, 9442
 biology
 behaviour 7526, 9442

Brachymeria lasus *cont.*
 biology *cont.*
 phenology 1743
 China 1167
 cotton, fields, India 1743
 hosts
 Cnaphalocrocis medinalis 1167
 Earias 1743
 Hyphantria cunea 7526
 Lepidoptera 9442
 pesticides, effects 1167

Brachymeria lugubris
 hosts, *Bessa remota* 2701
 Malaysia 2701

Brachymeria plutellae (*see B. excarinata*)

Brachymeria porthetrialis
 Japan 5444
 taxonomy 5444

Brachynotocoris puncticornis
 distribution, Netherlands 8868
 Fraxinus excelsior 8868

Brachypodium phoenicoides, *Hipparchia fida*, Spain 4689

Brachypodium pinnatum, *Rhopalosiphum padi* 5680

Brachys ovatus
 ecology, population dynamics 11006
 Quercus virginiana, Florida 11006

Bracken (*see Pteridium aquilinum*)

Bracon
 Cajanus cajan, fields, India 2836
 collection 271
 control
 Helicoverpa armigera 173
 Lepidoptera 2587
 cotton, fields, USSR 173
 fields, USSR 2587
 hosts
 Asphondylia riveae 2576
 Cydia critica 2836
 Cydia molesta 4767
 Ephestia kuehniella 173
 Galleria mellonella 271
 Lepidoptera 1508
 Macalla thyrsisalis 7943
 Melanagromyza hibisci 6862
 Melanagromyza obtusa 2813
 Tephritidae 2692
 India 2576, 2692, 2813
 okras, fields, India 6862
 peaches, orchards, Chile 4767
 sorghum, fields, South Africa 1508
 Swietenia, habitats, Florida 7943
 USSR 271, 273

Bracon albolineatus
 hosts, *Chilo partellus* 2663
 sorghum, fields, India 2663

Bracon brevicornis 10668
 coconuts, plantations, India 9649
 hosts
 Achaea janata 7520
 Opisina arenosella 9649, 10668
 India 10668
 physiology, nutrition 7520

Bracon capitator, taxonomy, to *Calibracon* 7308

Bracon chinensis, taxonomy, to *Myosoma* 1430

Bracon confusus
 Australasia 5959
 control, *Phylacteophaga froggatti* 5959
 hosts, *Phylacteophaga* 5959
 taxonomy, new species 5959

Bracon fletcheri
 hosts
 Carpomyia vesuviana 6847
 Melanagromyza obtusa 2813
 India 2813, 6847

Bracon fletcheri group
 hosts, *Melanagromyza obtusa* 2813
 India 2813

Bracon gelechia
 groundnuts, fields, India 8723
 hosts, *Aproaerema modicella* 8723

Bracon hebetor
 biology
 behaviour 4484
 development 4496
 control
 Ephestia cautella 11020
 Lepidoptera 11053

Bracon hebetor *cont.*
 hosts
 Cydia leucostoma 2935
 dates, insect pests 1545
 Ephestia cautella 6040
 Galleria mellonella 4496
 Lepidoptera 2520
 Macalla thyrsisalis 7943
 Opisina arenosella 8362, 10458
 Plodia interpunctella 4484
 insecticides, toxicity 8362, 10458
 monitoring, traps 6040
 rearing techniques 2520, 4496
 Swietenia, habitats, Florida 7943
 tea, plantations, India 2935

Bracon kirkpatricki
 control, *Pectinophora gossypiella* 6972
 cotton, fields, India 6972

Bracon mellitor
 Arctium minus, habitats, Massachusetts 3619
 cotton, fields, Texas 6978
 hosts
 Anthonomus grandis 6978
 insects 8425
 Metzneria lappella 3619
 Texas 8425

Bracon phylacteophagus
 Australasia 5959
 control, *Phylacteophaga froggatti* 5959
 hosts, *Phylacteophaga* 5959
 taxonomy, new species 5959

Braconidae
 Ammi visnaga, habitats, California 6642
 bibliographies 7248
 biology 6553, 8051
 distribution
 Israel 1320
 Korea Democratic People's Republic 5476
 USSR 3560
 forests
 Czechoslovakia 2097
 Hungary 5017
 German Democratic Republic 390
 Gramineae, fields, Brazil 5601
 hosts
 Aphididae 2137, 8368
 Aphis craccivora 650
 Apidae 6553
 arthropod pests 8051
 Cerapteryx graminis 1520
 Lymantria dispar 5017
 Noctuidae 5601, 6749
 Pemphigus maximowiczii 9939
 Tenthredinoidea 3571
 Uraba lugens 8915
 Israel 1321
 morphology 2137
 Netherlands 1520
 sorghum, fields, USA 6749
 South Australia 8915
 taxonomy 1321, 2137, 7527, 8353, 8915, 10472
 Vigna unguiculata, fields, Egypt 650

Braconinae
 North America 9451
 taxonomy 268, 1333, 7308-7309, 9451

Bradybaena similaris
 control, physical control 10684
 grapes, Taiwan 10684

Bradysia impatiens, plant pathogens, transmission 8973

Bradysia odoriphaga
 Allium tuberosum, China 1706
 biology 1706
 control, insecticides 1706

Bradysia paupera
 biology, environmental factors 10903
 greenhouse crops, German Federal Republic 10903

Bradysia tritici
 control 9753
 insecticides 599
 mushrooms 9753
 India 599

Brahmina coriacea
 control, insecticides 11743
 potatoes, India 11743

Bran, pesticides, residues 11017

Brasenia schreberi, *Macrosteles purpurata*, China 1605

Brassica

Aphididae, economic thresholds 2797
arthropod pests, German Democratic Republic 7550
Brevicoryne brassicae, German Federal Republic 9783
Calliphoridae, pollination 8661
Chromatomyia horticola 6456
Delia floralis, varietal susceptibility 10838

Delia radicum

Belgium 603
UK 9761

fields, *Trichogramma*, China 4819

insect pests

damage 2799
resistance 10763
reviews 2799

Lepidoptera, China 4819

Lipaphis erysimi, varietal susceptibility 616, 3846

pest control 2799

Brassica alboglabra

fields, *Cotesia plutellae*, Singapore 7775

insect pests, Singapore 7775

Brassica botrytis (see Cauliflowers)

Brassica campestris

Athalia lugens 2238

Chromatomyia horticola, India 7789
extracts, toxicity, *Corcyra cephalonica* 2014

fields, parasitoids, India 7789

insecticides, effects 4200

Lipaphis erysimi

resistance 10762
varietal susceptibility 8673

Spilosoma obliqua, India 7783

Brassica campestris subsp. *rapifera* (see Turnips)

Brassica campestris var. *napobrassica* (see Swedes)

Brassica campestris var. *oleifera* (see Turnip rape)

Brassica campestris var. *sarson* (see Sarson)

Brassica campestris var. *toria* (see Toria)

Brassica carinata, *Lipaphis erysimi*, resistance 9774, 10762

Brassica caulorapa (see Kohlrabi)

Brassica chinensis (see Chinese cabbages)

Brassica fimbriata (see Kale)

Brassica gemmifera (see Brussels sprouts)

Brassica hirta, intercropping, broccoli, pest control 6863

Brassica juncea (see Indian mustard)

Brassica napobrassica (see Swedes)

Brassica napus

Lipaphis erysimi

resistance 10762
varietal susceptibility 8673

Brassica napus var. *dichotoma*, *Lipaphis erysimi* 1616

Brassica napus var. *esculenta* (see Swedes)

Brassica napus var. *napobrassica* (see Swedes)

Brassica napus var. *oleifera* (see Rape)

Brassica napus var. *rapifera* (see Swedes)

Brassica nigra

Ceutorhynchus constrictus 7774

Lipaphis erysimi, varietal susceptibility 8673

Brassica oleracea

insect pests, resistance 9759

Pieris brassicae 2278

pollen, diets, *Neoseiulus fallacis* 4497

Brassica oleracea var. *acephala* (see Kale)

Brassica oleracea var. *botrytis* (see Broccoli; Cauliflowers)

Brassica oleracea var. *capitata* (see Cabbages)

Brassica oleracea var. *caulorapa* (see Kohlrabi)

Brassica oleracea var. *gemmifera* (see Brussels sprouts)

Brassica oleracea var. *sabauda*, *Plutella xylostella* 1640

Brassica oleracea var. *viridis* (see Kale)

Brassica pekinensis (see Chinese cabbages)

Brassica perviridis, *Myzus persicae* 8671

Brassica rapa subsp. *oleifera* (see Turnip rape)

Brassica rapa subsp. *rapa* (see Turnips)

Brassica rugosa, *Athalia lugens* 10761

Brassica tournefortii, *Athalia lugens* 10761

Brassicaceae, *Rhigognostis*, Palaearctic Region 3233

Brassicoliniae, taxonomy 5253

Brazil

Acari 6452

Aceria guerreronis 7710

Acromyrmex subterraneus 9891

Acrosternum bellum 11721

Aculops lycopersici 6942

Agrotis ipsilon 4942

Allorhogas, parasitoids 835

Anacranga, parasitoids 2444

Anastrepha 2142

Anthonomus grandis 4918, 6958-6959

pathogens 2913

Aphididae 9718

parasitoids 8676

Astylus 3670

Atta 11834

Atta sexdens, pathogens 7480

Azteca 5035

Bemisia tabaci 10784

biological control 5160

research 5157

Bombyx mori 539

Brachygastra lecheguana 6753

Brevipalpus phoenicis 3817, 6838

Bruchidae 3083, 8968

cabbages, insect pests 4823

Callosobruchus maculatus 8000

Calosoma alternans, prey 11720

Camponotus blandus 2408

Carineta 9895

cassava, arthropod pests 1700

Castnia licus 6684

Ceratitis capitata 9695

Cercopidae 4679, 4691, 6752, 8531,

9616

cereal grains, insect pests 859

cereals, insecticides, effects 7580

Cerotoma arcuata 10796

Chlamisus mimosae 8428

cocoa

insect pests, books 7258

insecticide residues 9892

insects 759

pollinators 4948

Conotrachelus humeripictus 1748-1749

Contarinia sorghicola 6742

Copaifera langsdorffii, Lepidoptera 807

Cornitermes cumulans 3464

Cosmopolites sordidus 4795-4796

cotton

arthropod pests 7852, 8770

mites 8771

predators 8771

crops

insect pests

books 7259

predators 6567

Cryptostigmata 6266

Cucurbita pepo, pollinators 8691, 9780

Cycloneda zischkai 11429

Cynipoidea, hosts 270

Deois flavopicta 4690

predators 5683

Diatraea 8450, 8515

Diatraea saccharalis 4605, 4608, 8449,

10548

parasitoids 8448

Dichroplus 4436

Dichroplus elongatus, pathogens 7137

Diploschema rotundicollis 4776

Dorisiana 9894

Drepanocassis profana 5562

Drosophila melanogaster 5022

Elasmopalpus lignosellus 4625

Empoasca kraemerii 9784

Enneothrips flavens 4867

Epilachna clandestina 5800

Erinnyis ello 8748

Brazil cont.

Eucalyptus, Lepidoptera, natural ene-

mies 10914

Eueides isabella, parasitoids 5755

Fidicina 8793

fishes, insecticide residues 6137

forest pests, parasitoids 1880

Formicidae 1224, 6516

Gryllotalpidae 4658

Helicoverpa zea 9548

Hypothenemus hampei, parasitoids

4951

insecticides, nontarget effects 10096

insects, biogeography 8912

Liriomyza 623

Lonchophorellus scylla 8653

Lycanidae 4004

maize

Lepidoptera 8479

pest control 8477

man, insecticide residues 3191

Myochrous armatus 4861, 8706

Myzus persicae 4962

Neocurtilla hexadactyla 4358

Neoleucinodes elegantalis 8756-8757

Nezara viridula 7346

Noctuidae 3671

natural enemies 5601

parasitoids 9868

Ochetomyrmex auropunctatus, prey

4948

Oiketicus kirbyi 816

oil palms, pollinators 1541

Oligonychus gossypii 8815

Oncideres 5944

onions, insect pests 8750

Orthezia praelonga, natural enemies

4954

Oxydia vesulia 7922

Panonychus citri 4792

Panonychus ulmi 4748, 10696

natural enemies 2733

Pectinophora gossypiella 6960

Pentatomidae 655

Perileucoptera coffeella, natural ene-

mies 9893

pest control, information 5151

Phaonia gallicola 1389

Phaseolus vulgaris

insect pests 1637-1638, 8697

insects 9785

Phyllocoptruta oleivora 1586

Phytoseiidae 6837

Pinnaaspis aspidistrae, prey 5749

Polybia sericea, prey 6525

Polyphagotarsonemus latus 744, 6957

potatoes, insect pests, natural enemies

9827

predators 9827

Psorocampa denticulata, parasitoids

2971

reservoirs, insecticide residues 8145

rice, insect pests 4666

Scapteriscus, predators 2491

Scolytidae 4986

Scrobipalpula absoluta 4899, 4901

Selenaspis articulatus, natural ene-

mies 9715

soil

insecticide residues 4624

invertebrates 1859

Solenopsis, pathogens 8322

soybeans

arthropod pests 1654, 4860

fields, predatory arthropods 5820

insects 4855

pest control 1655-1656

research, reports 11279

Spodoptera dolichos 10913

Spodoptera eridania 8831

Spodoptera frugiperda 9547

natural enemies 8476

parasitoids 8478

predators 5623

Stenoma assignata 2962

sugarcane, insect pests 10549

Teredinidae 11890

Tetranychus urticae 745, 3931

Thripobius similiteus, hosts 4521

Thrips tabaci 714

tomatoes, insect pests 3917

- Brazil** *cont.*
 Trichogrammatidae, hosts 8335
Varroa jacobsoni 1262
 wheat
 arthropods 3656
 pest control 9533
 woody plants, insect pests 5021
Zulia entreriana 4686, 6754, 9617-9618
- Breakfast cereals, *Sarasinula plebeia*** 312
- Bregmatothrips bournieri**
Cynodon dactylon, Asia 4683
 taxonomy, new species 4683
- Brennandania akermanae**
Brennandania stenops, differentiation 9542
 taxonomy, new species 9542
 wheat, USSR 9542
- Brennandania stenops, Brennandania akermanae**, differentiation 9542
- Brentinae**, taxonomy 11288
- Brevennia**, taxonomy 2136
- Brevennia rehi**
 control, insecticides 2651
 rice 2651
- Brevianamides**, effects, Noctuidae 10165
- (-)-exo-Brevicommin**, synthesis 8240
- (+)-endo-Brevicommin**, synthesis 8240
- endo-Brevicommin**
 attractants
 Dendroctonus ponderosae 2212
 Dendroctonus terebrans 7238, 8874
- exo-Brevicommin**
 attractants
 Dendroctonus ponderosae 2212, 5036
 Dendroctonus terebrans 7238
 effects, *Ips typographus* 9982
 mixtures, effects, *Thanasimus formicarius* 2990
- Brevicoryne brassicae**
 bamboos, China 8414
 biology 4181
 phenology 620
 reproduction 11698
- Brassica**
 German Federal Republic 9783
 resistance 10763
- Brassica oleracea**, Connecticut 9759
- broccoli, California 6863
- Brussels sprouts, damage 8678
- cabbages
 Brazil 8676
 India 3855, 4827
 New Zealand 11696
 Oklahoma 9766
 resistance 1622
 USSR 8682
- cauliflowers 1618, 9763
 India 8683, 10772
- control 11696
 cultural control 6863
 insecticides 3855, 4827, 9766
 plant extracts 9783
- destruxin E, effects 7246
- ecology, population density 613
- German Democratic Republic 11123
- India 11290
- Indian mustard, India 2810, 9776
- insecticides, toxicity 4181, 5184
- kale
 Massachusetts 613, 11698
 New York 3854
 USA 5789
- monitoring, traps 11123
- morphology 11290
- oranges, Brazil 9718
- parasitoids 613, 1618, 3854, 5789
- plant pathogens, transmission 5803
- predators 2810, 4824, 6863, 8414, 8683, 9718, 9763, 9776, 10772
- radishes, Japan 620
- repellents 8676
- taxonomy 11290
- Vicia faba*, India 5803
- Brevipalpus**, taxonomy 802
- Brevipalpus obovatus**
 distribution, maps 6459
 Egypt 324
- Brevipalpus ortizi**
Chamaedorea, Costa Rica 802
- Brevipalpus ortizi** *cont.*
 taxonomy, new species 802
- Brevipalpus phoenicis**
 biology 569
 Brazil 6452
Citrus 569
 control, acaricides 3817, 6838
 distribution, South Africa 1191
 oranges, Brazil 3817, 6838
 predators 5902
 tea, India 5902
- Brevipalpus pseudostriatus**
 food plants, Costa Rica 802
 taxonomy, new species 802
- Breynia vitis-idea, Orthezia insignis**, India 3979
- Brinckochrysa**
 cotton, fields 2909
 distribution, Tanzania 2909
 prey, *Aphis fabae* 2909
- Brinckochrysa scelestes**
 biology 11467
 food 11467
 prey, *Corcyra cephalonica* 218
 rearing techniques 218
- Brinckochrysa stenoptera**
 cotton, fields 2909
 distribution, Tanzania 2909
 prey, *Aphis fabae* 2909
- Brinjal** (see *Aubergines*)
- British Isles**
 Diptera, books 7264
 Hymenoptera 6568
 Lepidoptera, books 1003
Megaselia, books 7263
 Orthopteroidea, books 7255
 Pompilidae, books 7261
 Tephritidae, books 7262
- Broad bean bushy dwarf virus**, vectors, Aphididae 5803
- Broad bean mottle bromovirus**, vectors, *Apion arrogans* 5804
- Broad beans** (see *Vicia faba*)
- Broccoli** (*Brassica oleracea* var. *botrytis*)
Agrotis ipsilon, Taiwan 1604
Brevicoryne brassicae, California 6863
 fields
 Hymenoptera, Virginia 1620
 Syrphidae, California 6863
 insect pests
 Connecticut 10769
 resistance 9759
 insecticides, residues 3442
 Lepidoptera, Virginia 1620
Pemphigus populitransversus, Texas 4826
Pieris rapae, Massachusetts 9916
Tetranychus urticae 11756
Trichoplusia ni, yield losses 4830
- Brome mosaic bromovirus**
 vectors
 Aphididae 5770
 Oulema melanopus 4600
 Phyllotreta vittula 6707
- Bromfenvinphos**
 mixtures, toxicity, *Leptinotarsa decemlineata* 3174
 synergism 3174
 with methoxychlor, control, insect pests 5167
- 2'-Bromo-4'-nitro-perfluorocyclohexane carboxanilide**, effects, *Diabrotica virgifera* 4650
- Bromophos** (*O*-(4-bromo-2,5-dichlorophenyl) *O*,*O*-dimethyl phosphorothioate)
 control, *Brevicoryne brassicae* 4827
- Bromophos-ethyl** (*O*-(4-bromo-2,5-dichlorophenyl) *O*,*O*-diethyl phosphorothioate)
 effects, cotton 11775
 nontarget effects
 Cicer arietinum 1672
 predatory arthropods 6526
 toxicity, *Callosobruchus maculatus* 1672
- Bromopropylate** (1-methylethyl 4-bromo- α -(4-bromophenyl)- α -hydroxybenzeneacetate)
 control
 Acari 1250
- Bromopropylate** *cont.*
 control *cont.*
 Aculus schlechtendali 8614
 Panonychus citri 2772
 Panonychus ulmi 11642
 Phyllocoptruta oleivora 1586
 Polyphagotarsonemus latus 7746
 Tetranychus urticae 6995
 Tropilaelaps clareae 7517
 Varroa jacobsoni 1245, 1253
 nontarget effects, Phytoseiidae 6837
- Bromoviruses**, vectors, Coleoptera 8006
- Bromus catharticus, Rhopalosiphum**, Queensland 1429
- Bromus inermis, Papaipema nebris** 9549
- Brontispa chalybeipennis**
 Hawaii 1971
 natural enemies 1971
- Brontispa longissima**
 coconuts
 Taiwan 5696
 Western Samoa 3760
 control
 biological control 3760
 microbial pesticides 5696
- Broot** (see Trimethacarb)
- Broscus**, taxonomy 10364
- Broscus cephalotes**
 distribution, Canada 10364
 taxonomy, keys 383
 wheat, fields, USSR 383
- Broscus punctatus**
 cotton, fields, USSR 2904
 prey, *Agrotis segetum* 2904
- Browse plants**, arthropod pests 11255
- Bruchidae**
Acacia erioloba, Namibia 1789
 distribution 4269
 Middle East 3429
 East Africa 7441
 ectoparasites 3514
 Hungary 2368
 Ivory Coast 3514, 4465
 legumes, conferences 11270
 morphology 4269
 parasitoids 4465, 6592
 stored products 1918
 taxonomy 4269, 7441
Vicia faba, Hungary 9782
Vigna unguiculata, varietal susceptibility 1650
- Bruchidius atrolineatus**
 biology, diapause 8004
 insecticides, effects 7111
 intercropping, effects 10797
 physiology, pheromones 1087
 plant extracts, effects 7111
Vigna unguiculata
 commodities, Niger 8004
 Niger 10797
- Bruchidius incarnatus**
 biology 8969
 legumes, commodities 8969
- Bruchidius sparsenaculatus, Albizia lebbek**, India 3980
- Bruchophagus fellis**
 control, insecticides 7755
 grapefruits, Queensland 7755
- Bruchophagus mellipes**
 control, fumigants 870, 11898
Sesbania aculeata, commodities 870, 11898
- Bruchophagus platypterus**
Lotus corniculatus, Wisconsin 1528
Lotus tenuis, Argentina 3831
 morphology 3831
 parasitoids 3831
- Bruchophagus roddi**
 attractants 7416
 biology, behaviour 3740, 7416
 control, biological control 4695
 distribution, maps 6459
 lucerne 3740, 6459
 New South Wales 10653
Medicago 4695
 parasitoids 4695
- Bruchus affinis**
 biology, behaviour 10646
Lathyrus sylvestris, France 10646
- Bruchus atomarius**
 distribution, UK 1529

- Bruchus atomarius** *cont.*
Vicia sativa 1529
- Bruchus dentipes**
 biology 3870
 natural enemies 3870
Vicia faba 3870
 Syria 3871
- Bruchus pisorum**
 biology 3877
 Chile 2463
 control 3877
 insecticides 2824, 7090
 detection 8001
 legumes, commodities, India 7997
 parasitoids 2463
 peas
 commodities 7090, 8001
 USSR 1646, 2824, 3877
 research, conferences 10214
- Bruchus rufimanus**, *Vicia faba*, commodities, damage 8970
- Bruguiera**, *Chaetocnema*, Indonesia 7910
- Brumoides lineatus**
 biology 1290
 China 1290
 prey, Hemiptera 1290
- Brumoides suturalis**
Cuminum cyminum, fields, India 10529, 11524
 prey, *Myzus persicae* 10529, 11524
- Brussels sprouts** (*Brassica oleracea* var. *gemmifera*)
 Aphididae, UK 5484
Brevicoryne brassicae, damage 8678
Delia radicum, Belgium 9770
 fields, parasitoids, UK 5484
 habitats, *Diaeretiella rapae* 8677
 insect pests, resistance 9759
 insecticides, residues 9770
Plutella xylostella 5783
- Bryobia cavalloroi**
Genista aethioides, Sardinia 11517
 taxonomy, new species 11517
- Bryobia desertorum**
 biology 2562
 morphology 2562
 taxonomy, new species 2562
Zilla spinosa, Egypt 2562
- Bryobia redikorzevi** (see *B. rubrioculus*)
- Bryobia rubrioculus**
 apples, Ontario 8586
 control, acaricides 11643
 ecology, population dynamics 8586
 fruit trees, USSR 11643
 predators 8586, 11643
- Bubas bison**
 biology, phenology 8398
 dung, Spain 8398
- Bubas bubalus**
 biology, phenology 8398
 dung, Spain 8398
- Bubulcus ibis**
 prey
 Helicoverpa armigera 3891
 Hieroglyphus banian 3716
- Bucculatricidae**, phylogeny 5
- Bucculatrix thurberiella**
 biology, behaviour 6979
 control, insecticides 6980
 cotton 6979
 Arizona 6980, 9881
 pathogens 9881
- Bucculatrix univoca**, *Grewia asiatica*, India 1573
- Buckwheat** (*Fagopyrum esculentum*)
Aphis gossypii, India 5597
 commodities, insecticides, residues 7105
 fields, *Aphelinus kashmiricus*, India 5597
Hypera rumicis 6629
 Thysanoptera, Poland 11534
 viruses, vectors 6702
- Buddleja**, *Aphis paraverbasci*, India 3957
- Buddleja asiatica**, *Dendrothrips stannardi*, Nepal 9142
- Buffalo milk**, insecticides, residues 8092
- Bufo**, prey, *Jadera haematoloma* 5950
- Bufo houstonensis**, predators 7477
- Buildings**
Coptotermes formosanus, Florida 11481
- Buildings** *cont.*
Drosophila albomicans, Japan 3417
 Florida 3576
 Formicidae, German Democratic Republic 6511
 insect pests, reports 6244
 Isoptera, Florida 3576
Monomorium pharaonis, Czechoslovakia 4457
 Opiliones, Denmark 1339
Reticulitermes flavipes, German Federal Republic 1910
- Bulgaria**
Agrotis segetum 8540
 Aleoerodidae 2367
Aphis pomi, predators 6818
 Carabidae 158, 10363
 Crambinae 155
Diadegma 3559
 Diptera 6257
 Elateridae 4414
Lymantria dispar 8823
 natural enemies 8822
 pathogens 5981
 pest control 1974
- Bunchosia**, *Lonchophorellus callosus* 8653
- Bupalus piniarius**
 biology 7945
 ecology, population dynamics 10960, 11789
 forest trees, UK 5034
 heavy metals, residues 9958
 monitoring 7932
 parasitoids 7505
Pinus sylvestris 7945
 Finland 9958
 German Democratic Republic 7932
 pollution, effects 7945, 9958
- Buphonella murina**, maize, South Africa 5628
- Buprestidae**
Acer rubrum, Kentucky 11000
 conifers, Ontario 8862
 distribution, Africa 1155
 fire, effects 7670
 food plants 1155
 Australia 4007
 forest trees, Czechoslovakia 4012
 grasslands, Utah 7670
 monitoring, traps 7670, 8862
 parasitoids 4012
Quercus nigra, Florida 10997
 taxonomy 2139
- Buprofezin** (2-[(1,1-dimethylethyl)imino]tetrahydro-3-(1-methylethyl)-5-phenyl-4H-1,3,5-thiadiazin-4-one)
 control
 Dialeurodes citri 7751, 11663
 maize, insect pests 9573
 Nilaparvata lugens 4670
 Trialeurodes vaporariorum 2072
 effects
 Hemiptera 2763
 Laodelphax striatella 10157
 Metarhizium anisopliae 9591
 Nilaparvata lugens 6215
 mixtures
 control
 maize, insect pests 9573
 rice, insect pests 2644
 nontarget effects, *Encarsia* 11663
 toxicity
 Aleoerodidae 8809
 cotton, insect pests 8781
- Burkina Faso**
Aleurocybotus indicus 442
Coniesta ignefusalis 420
 pest control 1990
Azadirachta indica, economics 6676
- Burma**, *Drosophila* 150
- Burning**, effects, *Diatraea saccharalis*, natural enemies 4605
- Bursaphelenchus lignicolis**, vectors, *Monochamus alternatus* 3967
- Bursaphelenchus mucronatus**, hosts, *Monochamus sutor* 1819
- Bursaphelenchus xylophilus**
 insect growth regulators, effects 9082
Monochamus carolinensis, interactions 1817
- Bursaphelenchus xylophilus** *cont.*
 vectors
 Monochamus alternatus 7027, 7927, 8028, 9928, 9945
 Monochamus carolinensis 10077
- Burundi**
Phthorimaea operculella 8741
Prostephanus truncatus 3055
Spodoptera exempta 3140
 wheat, pest control 7590
- Busseola fusca**
 biology 412, 6711
 behaviour 2630, 6743
 development 407
 diapause 1508
 control 1509
 cultural control 412
 insecticides 417, 9573
 distribution 1509
 maps 6459
 ecology 1509
 food plants, Africa 6459
 maize
 Ethiopia 407, 412, 6711
 Ivory Coast 10594
 resistance 8500
 South Africa 417, 2630, 4635, 9573
 morphology, larvae 10594
 natural enemies 1508
 pathogens 6745
 sampling 4635
 sorghum
 Africa 3717
 Kenya 6743, 6745
 South Africa 1508
 West Africa 1509
 taxonomy 10594
- Butanol**, attractants, *Delia antiqua* 5855
- Butanolides**, synthesis 11309
- Butea frondosa** (see *B. monosperma*)
- Butea monosperma**
 oils, toxicity, wheat, commodities, insect pests 5099
Pachyonyx quadridens, damage 2976
- Buteo jamaicensis**, insecticides, residues 10148
- Butisan S**, effects, *Diaeretiella rapae* 1618
- Butocarboxin**, control, *Panonychus citri* 2772
- Butorides striatus**, insecticides, residues 8110
- Butoxycarboxim** (3-(methylsulfonyl)-2-butanone *O*-[(methylamino)carbonyl]oxime)
 control, *Tetranychus urticae* 7898
- Butter**, pesticides, residues 7082
- Butterflies** (see *Rhopalocera*)
- Butyl acetate**, attractants, *Glischrochilus quadrisignatus* 5725
- t-Butyl alcohol**, effects, *Spathosternum prasiniferum* 8259
- n-Butyl butyrate**, mixtures, pheromones, *Campylomma verbasci* 8587
- Butyl hexanoate**, mixtures, attractants, *Rhagoletis pomonella* 8626
- Butyl 2-methylbutanoate**, mixtures, attractants, *Rhagoletis pomonella* 8626
- Butylate**
 insecticides, interactions 9567
 with insecticides, control, *Diabrotica* 4647
- R(-)-2-Butyl-(Z)-7-tetradecenoate**, pheromones, inhibitors, *Harrisina brillians* 5713
- S(+)-2-Butyl-(Z)-7-tetradecenoate**, pheromones, *Harrisina brillians* 5713
- Butyric acid**, repellents, *Tenebrio molitor* 7379
- Buxus**, *Monarthropalpus buxi*, Italy 4019
- Buxus sempervirens**
Eriococcus williamsi, USSR 2937
Ricania sublimbata, China 1577
- Buzura suppressaria**
 biology 5901
 control 5901
 microbial pesticides 2895
 oil plants, China 2895
 pathogens 3087
 tea, India 5901

Bycra villosa

Atta mexicana, interactions 9374
biology, phenology 9374
Mexico 9374

Byrrhus

France 5258
taxonomy 5258

Byttneria, *Lonchophorellus callosus* 8653

Byturus rubi (see *B. unicolor*)

Byturus tomentosus

control, insecticides 506
raspberries
resistance 9122
Switzerland 5705
USSR 506

Byturus unicolor, raspberries, resistance 9122

Cabbages (*Brassica oleracea* var. *capitata*)
Agrotis ipsilon, Taiwan 1604

Aphididae

resistance 7551
Taiwan 2797
arthropod pests
control, botanical insecticides 1990
Italy 11637

Autographa gamma, Japan 5792

Brevicoryne brassicae

India 4827
resistance 1622

Chrysodeixis eriosoma, India 10773

Crocidolomia binotalis, yield losses 1619

Delia

Finland 5793
Norway 7251

Delia radicum, economic thresholds 607

Diaprepes abbreviatus 1208

Diptera, pollination 9772

effects, *Empoasca fabae* 9786

Eurydema rugosa, Japan 3858

extracts

attractants, *Delia radicum* 7781
effects, *Plutella xylostella* 9773

fields

Aphidius, Brazil 8676
beneficial insects, USSR 2804

Carabidae

Finland, reviews 5793
Poland 7780

Cotesia glomerata, Japan 6869

Cotesia plutellae

Pakistan 225
Singapore 7775

Cotesia rubecula, British Columbia 9768

Diadegma insularis, Costa Rica 4825, 5788

Diadegma semiclausum, Egypt 1625

Hymenoptera, India 10773

predatory insects, USSR 607

Trichogramma, USSR 608

Trichogramma buesi, Egypt 5790

habitats, *Telenomus remus* 8370

Helicoverpa armigera 10059

Hellula undalis, Japan 4832

insect pests

Brazil 4823, 8676
India 3855
Indonesia 11695
New Zealand 11696
Oklahoma 9766
resistance 10763
Singapore 7775
Switzerland 3894

insecticides, residues 3442, 3859, 10760

Lepidoptera 4829

control 2804
damage 10771
economic thresholds 2805
India 2805
natural enemies 2804
USA 4834
USSR 608, 2804, 5794, 8681

Lipaphis erysimi, India 2807

Mamestra brassicae 610, 11906

Japan 3857

Norway 3851

Papilio polyxenes 6421

Cabbages cont.

Pemphigus populitransversus, Texas 4826

Peridroma saucia 8967
pest control

Thailand 1413
USSR 8682

Pieris brassicae 7418, 10768
India 611

Pieris rapae

Bermuda 4828
British Columbia 9768
Egypt 5790
Japan 2808, 6869
Netherlands 8680
New York 6870
USA 8680

Plutella xylostella 5783, 8085, 9764, 10770

Burkina Faso 6676

Costa Rica 5788

Egypt 1625

Florida 3852

Hawaii 2809

India 9765, 11694

Japan 4831, 4833, 7779

Pakistan 225

resistance 9773

Taiwan 5791

varietal susceptibility 5780

yield losses 4825

slugs, UK 612

Spodoptera litura 8370

Thrips tabaci, resistance 1621, 1623-1624

Trichoplusia ni 7762

New York 7782

Cabomba caroliniana, *Parapoynx diminutalis* 8430

Cacao (see *Cocoa*)

Cacoeimorpha, pheromones 10274

Cacoeimorpha pronubana

distribution

Irish Republic 2353
Switzerland 142
monitoring, traps 2944
ornamental plants, Italy 2944
pheromones 64, 8237
sex pheromones 2944

Cacopsylla, pears, Italy 8621

Cacopsylla mali

apples

Czechoslovakia 11649
Switzerland 2742

control, insecticides 2742, 11649

Cacopsylla pyri

biology 9691

control

insecticides 2747, 8621
integrated control 560

pears

Belgium 560
Italy 1566, 2747, 8622
Switzerland 4762

predators 8622

Cacopsylla pyricola

biology 5739

behaviour 9692-9693

control, insecticides 2748

growth regulators, effects 9104

insecticides, resistance 1565, 8623-8624

monitoring, traps 4761

pears 9693

Connecticut 4761

North America 8623

Oregon 2748

USA 1565, 8624

varietal susceptibility 5739

Washington 9691

Cactaceae

Drosophila 10525

Tetranychus urticae 7898

Cactoblastis cactorum

biology, environmental factors 2567

ecology, life tables 337

natural enemies 337

Opuntia, South Africa 337, 2567

Cadmium

accumulation, slugs 9483

assimilation, Mollusca 7546

Cadmium cont.

effects

Agrotis segetum 4169
Orchesella cincta 10138
Pimpla turionellae 4523

soil invertebrates 10018

metabolism, *Drosophila melanogaster* 8258

pollutants

forests 5054
invertebrates 9100

Spingidae 1835

residues

arthropods 5060
Coleoptera 4040
Diprionidae 5977
forest pests 9958

Cadra cautella (see *Ephestia cautella*)

Cadra figulilella (see *Ephestia figulilella*)

Cadusafos, control, Coleoptera 6127

Caenis robusta, insect growth regulators, effects 2755

Caenocephus aldrichi

biology 1402

Holodiscus discolor, Oregon 1402

natural enemies 1402

Caenohomalopoda shikokuensis

Florida 11431

hosts, *Odonaspis penicillata* 11431

Caenorhabditis remanei, insect growth

regulators, effects 6212

Caesalpina pulcherrima, *Eucoptacra*

ceylonica, India 10895

Caffeic acid, antifedants, *Locusta*

migratoria 9067

Caffeine, effects, *Manduca sexta* 10336

Cajanus cajan

Aceria cajani, India 6901

Anarsia ephippias, India 3867

Aphis craccivora, India 9740

Atactogaster finitimus, India 5829

attractants, *Eucelatoria bryani* 7873

Bruchidae, India 7997

Clavigralla gibbosa, India 9810

commodities

Acanthoscelides cajanae, Brazil 3083

Bruchidae 8969

India 7997

Callosobruchus 7998

resistance 1670

Callosobruchus chinensis 1914,

11058, 11887

Callosobruchus maculatus 11877

India 10047

Helicoverpa armigera 7120

Cydia critica, India 2836

Empoasca, Puerto Rico 3886, 9811

Empoasca kerri, India 6903

extracts, attractants, *Eucelatoria bryani* 7873

fields

beneficial insects, India 7878
Hymenoptera, India 2836, 9740
predatory insects, Puerto Rico 3886
Helicoverpa armigera 596, 2848, 4811, 7805, 9920
Australia 11164
India 3890, 5826, 7878, 10806
resistance 1670, 10215
varietal susceptibility 8717, 11732
Heliothis virescens, United States Virgin Islands 8716

insect pests

books 3868
damage 6902
India 3887, 4865, 5825, 5828, 7806
varietal susceptibility 5816

insecticides

application 2391
effects 1668

toxicity 2044

Kerria lacca 9932

Lepidoptera

Australia 7861

Puerto Rico 1669

Maruca testulalis 9781

Melanagromyza obtusa

damage 2845

India 2813, 5827, 5830

varietal susceptibility 10807

Cajanus cajan cont.

Melanagromyza obtusa cont.
yield losses 659

Myiabras phalerata 10808
Myiabras pustulata, India 6904
Myllocerus menoni, India 2969
Ophiomyia centrosematis 2833
pest control 1668
India 6900

Sphenoptera indica, India 2837
Trichogramma 5478
tropics, reports 8154

Calacarus carinatus

predators 5902
tea, India 5902

Calamagrostis, habitats, invertebrates, USSR 3420**Calambus**

forest trees, USSR 4251
taxonomy 4251

Calamondins, *Ceratitidis capitata*, Florida 578**Calandra granaria** (see *Sitophilus granarius*)**Calcium**, accumulation, slugs 9483**Calcium cyanamide**, control, cauliflowers, insect pests 8674**Calcium fertilizers**, effects, *Spodoptera frugiperda* 8480**Calcium hypochlorite**, control, *Ascosphaera aggregata* 480**Calcium nitrate**, toxicity, *Tribolium confusum* 9066**Calcium polysulfide**, control, citrus, arthropod pests 6828**Caledia captiva**

Australia 3463
biology, environmental factors 3463
genetics 181
growth regulators, effects 4303
pathogens 3467
physiology, enzymes 4303
Queensland 181

Calendula arvensis, Aphididae, China 749**Calendula officinalis**, *Helicoverpa armigera*, damage 6997**Calephya alchymista**

biology 1877
Quercus ilex, Spain 1877

Calepitrimerus brochus

Combretum molle, South Africa 9667
taxonomy, new species 9667

Calepitrimerus gwenllae

Ehretia rigida, South Africa 9667
taxonomy, new species 9667

Calepitrimerus vitis

biology 11625
control 8047
acaricides 2690
distribution, South Africa 9667
grapes 9667
German Democratic Republic 2690
Hungary 11625
Italy 5711
pesticides, effects 5711

Calepitrimerus yunnanensis

Adina racemosa, China 5947
taxonomy, new species 5947

Cales noacki

biology, phenology 2760
Citrus, orchards, Italy 2760, 3816
hosts

Aleurothrix floccosus 3816
Aleyrodidae 2760

Caliothrips indicus

control, insecticides 9814
groundnuts, India 9814
predators 2468

Caliroa camelliae, taxonomy, to *Dasmithius* 7314**Caliroini**, taxonomy 3571**Calla**, *Tetranychus urticae*, German Federal Republic 11787**Callandrena**, parasitoids 3226**Callaphididae**, physiology, enzymes 1060**Callaphis juglandis**

biology 8579
ecology 8579
parasitoids 10686
walnuts, India 10686

Calleida

insecticides, effects 5820
soybeans, fields, Brazil 5820

Calleida decora

prey, *Anticarsia gemmatalis* 4862
soybeans, fields, Florida 4862

Calliandra, extracts, toxicity, *Aphis fabae* 3641**Callibracon capitator**, taxonomy, from *Bracon* 7308**Callicarpa macrophylla**, oils, effects, *Sitophilus oryzae* 5097**Callicera rufa**

distribution, UK 9979
woodlands 9979

Calligrapha californica coreopsivora, *Coreopsis tinctoria*, Virginia 9500**Calliphora**, predators 9396**Calliphora vicina**, parasitoids 2517**Calliphoridae**

rearing techniques 8661
vegetables, pollination 8661

Calliptamus barbarus

genetics
chromosomes 182
karyotypes 3471
Spain 182
USSR 3471

Callistephus chinensis

Helicoverpa armigera, damage 6997
Orosius orientalis, India 10889
phyllody, vectors, *Orosius orientalis* 10889

Callisto coffeella

distribution, Poland 3752
Salix silesiaca 3752

Callisto denticulella

distribution, Poland 3752
Malus 3752

Callisto insperatella

distribution, Poland 3752
Prunus padus 3752

Callistris endlicheri, *Diadoxus erythrurus* 4007**Callistris glaucophylla**, *Diadoxus erythrurus* 4007**Calliteara horsfieldii**

apples 7732
biology 7732

Calliteara pudibunda

cytoplasmic polyhedrosis viruses, hosts, *Pristiphora abietina* 4045
forest trees, German Democratic Republic 8821

Callithrix humeralifer, Formicidae, interactions 1224**Callitula**

hosts, *Ophiomyia phaseoli* 639
Phaseolus vulgaris, fields, Ethiopia 639

Callopietria floridensis

biology, development 3961
ferns, India 3961

Callosobruchus analis

biology 5089
behaviour 7998
grain legumes, commodities, Indonesia 5089
insecticides, toxicity 10034
legumes

commodities 7998

India 7997

morphology 5089

digestive system 7330

predators 7986

taxonomy 5089

Vigna, commodities, resistance 6048

Callosobruchus chinensis

biology 1916-1917, 5089
behaviour 7998, 11889

Cajanus cajan

commodities 1914, 11058, 11887
resistance 1670

chemosterilants, effects 6388

Cicer arietinum

commodities 8932
damage 854
varietal susceptibility 7970

control 8932

fumigants 11058

fungicides 11888

ecology, population dynamics 4086

Callosobruchus chinensis cont.

grain legumes, commodities, Indonesia 5089

insecticides 8076

effects 6164

toxicity 947-948, 4069, 10034

legumes

commodities 7998

India 7997

lentils, commodities, India 11888

monitoring, traps 174

morphology, digestive system 7330

oils, effects 3082

Phaseolus, commodities, resistance 1916

plant extracts

effects 8424

toxicity 1914, 7119, 10116

plant oils, toxicity 6678

predators 7986

radiation, effects 1915, 1917, 3362

Saudi Arabia 174

Vicia faba, commodities 1917

Vigna, commodities, resistance 6048

Vigna angularis, commodities 7118, 11889

Vigna radiata, commodities 948, 1915

Vigna unguiculata, commodities 3082, 4086

Callosobruchus maculatus

biology 1897, 1916, 5089, 8969

behaviour 1154, 3061, 4352, 6051, 6420, 7998, 10029, 10048

development 11877

environmental factors 2175

reproduction 8000

Cajanus cajan, commodities, resistance 1670

Cicer arietinum, commodities, resistance 6050

commodities 6052

distribution, Pacific Islands 4384

ecology, population dynamics 4086, 6019

evolution 9172-9173

genetics

phenotypes 9172

population genetics 4352

grain legumes, commodities, Indonesia 5089

insecticides, toxicity 947-948, 1672, 3065, 10034

legumes 6420

commodities 7998, 8969, 11877

India 7997, 10047

parasitoids 1900

Phaseolus, commodities, resistance 1916

physiology 9173

reproduction 1112

plant extracts

effects 4087

toxicity 1415, 7087, 10027

plant oils, effects 6047, 6052

plant proteins, toxicity 9105

predators 7986

radiation, effects 3065

stored products 7087

Vigna, commodities, resistance 6048

Vigna angularis, commodities 7118

Vigna radiata, commodities 948, 1154, 1900

Vigna unguiculata 8000

commodities 4086, 6047, 6051, 10029, 10048

Nigeria 3061

resistance 6049, 10050

Callosobruchus phaseoli, *Vigna*, commodities, resistance 6048

Callosobruchus theobromae, legumes, commodities, India 7997

Calluna

arthropod pests 11243

books 11243

habitats

insects

ecology 6470

UK 6470

Calluna vulgaris, *Hemineura bigoti*, Spain 8830

- Calluneyrodes callunae***, *Erica*, Europe 9912
- Calocarcelia***
hosts, *Eueides isabella* 5755
passion fruits, orchards, Brazil 5755
- Calocoris angustatus***
biology, development 3727
sorghum
Africa 3717
India 3722, 3727, 5674, 9605
varietal susceptibility 7662
- Calocoris norvegicus***
monitoring 8461
wheat, Hungary 8461
- Caloglyphus***
control, plant parasitic nematodes, evaluation 6108
insects, interactions 194
predators 1291
prey
Meloidogyne 8025
Otiorynchus sulcatus 6108
- Caloglyphus berlesii***
distribution, Philippines 7080
Isoptera, pests, Brazil 6452
- Calolampra elegans***
sampling 4612
soil, Queensland 4612
- Calomela***, *Acacia*, Australia 9993
- Calomela relicta***
Acacia, New South Wales 9993
taxonomy, new species 9993
- Calopepla leayana***
Gmelina arborea, India 11004
insecticides, pathogenicity 11004
- Calophyidae**
ecology 10240
morphology 10240
Panama 10240
taxonomy 10240
- Calophyllum inophyllum***
extracts, effects, Delphacidae 3700
oils, toxicity, wheat, commodities, insect pests 5099
- Caloptilia***
Africa 3236
parasitoids 10972
Quercus, Japan 10972
taxonomy 3236
- Caloptilia theivora***
parasitoids 2935
tea, India 2935
- Calosoma***
Ecuador 11287
forests, Hungary 5017
morphology 11287
prey, *Lymantria dispar* 5017
- Calosoma alternans granulatum***
biology, environmental factors 11720
Brazil 11720
monitoring, traps 11720
prey, *Anticarsia gemmatilis* 11720
- Calosoma chinense***, biology 5490
- Calosoma frigidum***, forests, Pennsylvania 9966
- Calosoma granulatum*** (see *C. alternans granulatum*)
- Calosoma sycophanta***
biology, environmental factors 11444
Connecticut 11444
ecology, distribution 7961
forests, Connecticut 7961
monitoring, traps 7961
prey, *Lymantria dispar* 7961, 11444
- Calosotinae**, taxonomy 6255
- Calotes versicolor***
insect viruses, interactions 872
prey
Cicer arietinum, insect pests 2851
insect pests 872
- Calotropis gigantea***, *Mylocerus rosae*, India 2969
- Calotropis procera***, *Spilostethus macilentus* 4598, 4810, 5576
- Calpodes ethlius***
insecticides, effects 6320
physiology 8229
chemical composition 101
development 10261
excretory system 6320
- Calycomyza lantanae***
Asia 4603
control, *Lantana camara* 4603
- Cambodia**, Galerucinae 2134
- Camellia***
Hemiberlesia rapax 6456
pest control, books 2114
- Camellia japonica***
Chrysomelidae, Japan 2953
Lepidosaphes camelliae, Georgia 4968
- Camellia sinensis*** (see *Tea*)
- Cameraria ohridella***
Aesculus hippocastanum, Yugoslavia 829
taxonomy, new species 829
- Cameroon**
Bemisia tabaci 7879
cotton, insect pests 3939
- Camnula***, pathogens 1220
- Camnula pellucida***
insecticides, toxicity 9064
pathogens 1220
- Campanula latifolia***, *Phyllotreta nemorum* 2784
- Campechlor** (chlorinated camphenes containing 67-69% chlorine)
control
Apion 481
cotton, insect pests 742
mixtures, control, onions, insect pests 8750
residues
Arctic Ocean, fauna 8128
foods 8118
vertebrates 11224
toxicity, *Spodoptera frugiperda* 404
- Camphene**
attractants
Coleoptera 822
Pityogenes chalcographus 8835
synergism 8835
- Campodea staphylinas***, grasslands, soil, UK 3363
- Campoletis***
hosts, *Spodoptera frugiperda* 8478
maize, Brazil 8478
- Campoletis annulata***, hosts, *Agrotis segetum* 11932
- Campoletis chloridae***
biology 8776
phenology 9818
Cicer arietinum, fields, India 670, 2851, 9818, 9820
cold storage, effects 219
cotton, fields, China 8776
fields, India 7878
hosts, *Helicoverpa armigera* 219, 670, 2851, 2886, 7878, 8776, 9818, 9820
parasitoids 2886
tomatoes, fields, India 2886
- Campoletis sonorensis***
biology
behaviour 6977, 9876
development 5283
cotton, habitats 6977, 9876
distribution, Chile 4512
genetics, gene expression 8371
hosts
Copitarsia consueta 4512
Heliothis 727
Heliothis virescens 1295, 4114, 5283, 8371, 9455, 9876
Spodoptera frugiperda 8491, 9430
pathogens 1295, 4114
physiology, immune response 9430
plant extracts
effects 9455
toxicity 2883
symbionts 8371
tomatoes 2883
fields, North Carolina 727
venoms 8371
- Camponotinae**, predators 8348
- Camponotus**
Amitermes laurensis, interactions 11476
Aphididae, interactions 1865
biology 10192
Citrus, orchards, India 1584
control 6513
- Camponotus* cont.**
Ghana 11903
pathogens 11903
Psorosticha zizyphi, interactions 1584
Queensland 11476
timbers 6513
- Camponotus abdominalis***
biology 10192
behaviour 4455
- Camponotus aethiops***, biology, behaviour 10420
- Camponotus blandus***
biology, behaviour 2408
Brazil 2408
- Camponotus castaneus***
Florida 8323
pathogens 8323
- Camponotus detritus*** (see *C. fulvopilosus detritus*)
- Camponotus femoratus***
biochemistry, volatile compounds 10402
seeds, Peru 10402
- Camponotus ferrugineus***
biology 10192
forests, Connecticut 5043
prey, *Lymantria dispar* 5043
- Camponotus floridanus*** (see *C. abdominalis*)
- Camponotus fulvopilosus***, physiology, respiration 9246
- Camponotus herculeanus***
biology 11426
Camponotus ligniperdus, differentiation 7482, 8329
distribution, Europe 7482
ecology 7482
population dynamics 11856
forests, Finland 11856
morphology 7482
physiology, pheromones 8329
Poland 8329
Switzerland 11426
- Camponotus japonicus***
Aphis gossypii, interactions 1225
Japan 1225, 1863
Toxoptera odinae, interactions 1863
- Camponotus kiusiuensis***
bamboos, plantations, Japan 2584
biology 2584
- Camponotus ligniperdus***
biology 11426
behaviour 8327
Camponotus herculeanus, differentiation 7482, 8329
distribution, Europe 7482
ecology 7482
Europe 8327
morphology 7482
physiology, pheromones 8329
Poland 8329
Switzerland 11426
- Camponotus mississippiensis***
Indiana 7475
taxonomy, new species 7475
- Camponotus mus***, biology, environmental factors 11423
- Camponotus nawai***
biology, reproduction 9380
Japan 9380
- Camponotus novaeboracensis***, insecticides, toxicity 8958
- Camponotus pensylvanicus***, insecticides, toxicity 8958
- Camponotus sericeus***
biology 5436
India 5436
- Camponotus sylvaticus***
Aphididae, interactions 4452
biology, behaviour 4452
grasslands, Spain 4452
- Camponotus vagus***
biochemistry, cuticle 10406
biology, behaviour 2411, 10400
Corsica 7474
distribution, Denmark 1233
France 10400
physiology, secretions 7474
- Camponotus vicinus***, physiology, respiration 9246
- Campopleginae**
forests, USSR 4029

Campopleginae cont.

hosts, Geometridae 4029

Campoplex

Citrus, orchards, Italy 2765
hosts, *Archips rosanus* 2765

Campoplex punctulatus

hosts, *Cydia* 1530
Vicia sativa, habitats, UK 1530

Campylomma

control, cultural control 7817
potatoes, Egypt 7817
sorghum, Africa 3717

Campylomma verbasci

apples
British Columbia 5732, 8590, 8602
Nova Scotia 2738, 10701
arthropods, interactions 5732
biology, distribution 5732
control, insecticides 2738, 10701
ecology, distribution 8602
food plants, British Columbia 8587
monitoring, traps 8587
pheromones 8587
sampling 5732, 8602

Campyloneurus mutator, taxonomy, to

Pycnobracon 7308

Canada

Acyrtosiphon pisum 9637
Anthonomus 8201
Aphididae 1421
Apis, ectoparasites 6574
Apis mellifera, pathogens 11271
biological control agents 10455
birds, pesticide residues 9086
Braconidae 6566
Cephus cinctus 7594
Danaus plexippus 6664
Dendroctonus simplex 10964
Dermaptera 9161
Diplopoda 3227
Diuraphis noxia 4601
Eupithecia 10245
forests
arthropod pests, damage 4047
insects 9346
fruits, conferences 8173
Gynaephora groenlandica 9953
Heteroptera 9339
Hyadaphis tataricae 1763
Hydrophilidae 7306
insecticides, registration 8174
Isoptera 9463
Lambdina fiscellaria, reviews 9975
Lepidoptera 10360
Lygus lineolaris 7955
Micromus 3528
Myriapoda 3247
Orthoptera 9371
pest control, reports 8183
Picea glauca, insect pests 7916
Rhizophagus 9139
stored products, Coleoptera 7272
Urocera flavicornis 1192
vertebrates, insecticide residues 11224
water, pesticide residues 11229

Alberta

Acrididae 10094
pathogens 3479
Aleyrodidae 9925
Cinara nigra 10962
Clydesmithia canadensis 10947
Dendroctonus ponderosae 8861
Diuraphis noxia 9543
Eurytoma onobrychidis, parasitoids 5688
forest trees, insect pests 7063
Grammia blakei 464, 8532
Hypodryas gillettii 1757
insecticides, deposition, monitoring 4419
man, insecticides, effects 11994
Melanoplus 1221
Picea glauca, insect pests 7913
Sonchus arvensis, natural enemies 8419

British Columbia

Aleyrodidae 9925
Amblyseius andersoni 11284
apples, arthropod pests 5732
Barbara colfaxiana 10008
parasitoids 6001

Canada cont.**British Columbia cont.**

Cacopsylla pyricola 8623
Campylomma verbasci 8587, 8590, 8602
Choristoneura fumiferana 8993
Choristoneura occidentalis 8884-8885
pathogens 8863
Chrysoteuchia topiaria 9658
Cimberis decipiens 5261
Cinara nigra 10962
Clydesmithia canadensis 10947
cranberries, insecticide residues 6787
Curculionidae 7924
Cydia strobilella 10007
Delia antiqua 2881
Dendroctonus ponderosae 5036, 7918, 7921, 8867
Dendroctonus pseudotsugae 3004
Diuraphis noxia 9543
forest nurseries, arthropod pests 10912
forest trees, insect pests, conferences 11265
Lambdina fiscellaria 7038
Nasonovia ribisnigri 597
nurseries, Diptera 10915
Ochroleptura fennica 10911
Operophtera brumata, parasitoids 9018
Orgyia pseudotsugata 7917
Pieris rapae, parasitoids 9768
Pissodes strobi 10910, 10935, 10938
predators 7072, 10934, 11811
Pseudotsuga menziesii, insect pests 5998, 6003
Rhopalocera 10361
Schizotetranychus schizopus 7060
Thysanoptera, predators 3863
Trypodendron lineatum 8860, 9963
Typhlocyba pomaria 1562
Vespa germanica 7428

Canadian Northwest Territories

forest trees, insect pests 7063
snow, insecticide residues 8140

Manitoba

Acyrtosiphon pisum 1533, 9283, 10652
Delia radicum 8749
Euxoa ochrogaster 9886
forest trees, insect pests 7063
Hylurgopinus rufipes 1852
oats, commodities, mites 11876
Pityokteines sparsus, pathogens 5962
potatoes, insect pests 8737
Psocoptera, predators 1902
Scolytidae, pathogens 6085, 7055, 8844, 8848
Sonchus arvensis, natural enemies 8419

New Brunswick

Aleyrodidae 9925
Aphididae 10829
aquatic insects, insecticides, nontarget effects 11190
birds, insecticides, effects 10139
Choristoneura fumiferana 1771, 7075, 7914
pathogens 7144
Croesia curvalana 2707
fishes, insecticides, effects 11189
forest trees, insecticides, deposition 10906
forests
insecticide residues 7920, 8892
insecticides, drift 3038
Leptinotarsa decemlineata, parasitoids 4886
Myzus 6920
potato Y potyvirus, vectors 6915
Rhagoletis mendax 8563
water, insecticide residues 8133
Zeiraphera 3023
Zeiraphera canadensis 8853
Newfoundland, *Lambdina fiscellaria* 3005, 7915, 8852

Canada cont.**Nova Scotia**

Acyrtosiphon pisum 1533
Aleyrodidae 9925
apples, arthropods 2738, 10701
Broscus cephalotes 10364
crops, research, reports 10218
Hepialus gracilis, natural enemies 7023
Operophtera brumata, parasitoids 9018
Panonychus ulmi 4745
Rhagoletis 1538
Rhagoletis mendax 8563
Sonchus arvensis, natural enemies 8419

Ontario

Acrosternum hilare 7057
Agromyza frontella, parasitoids 9642
Agrotis ipsilon 4168
Aleyrodidae 9925
Amblyseius andersoni 11284
Aphis pomi, predators 9690
apples
arthropods 8586
mites 4750, 4753
aquatic organisms, insecticides, nontarget effects 8115
birds, pesticide residues 968
cabbages, Lepidoptera 4835
cauliflowers, Lepidoptera 2806
Choristoneura fumiferana 5050, 5993, 7939, 8865
Choristoneura pinus 10006
Chrysoperla carnea, insecticide resistance 2509
coniferous forests, Coleoptera 822, 8862
Conophthorus 9942
Cryptococcus fagisuga 5927
antagonists 4022
Cydia strobilella 10007
Epiblema scudderiana 3368
Euxoa messoria 10874
forest pests 844
reviews 11865-11868
forest trees
Coleoptera 821
insect pests 11857-11862
insecticides, deposition 10907
forests, insecticides, residues 9090
Geina sheppardi 9661
Hemadas nubilipennis 5710
Hemeroptera 6537
Hydraecia micacea 913
Hypera 9636
insecticides, deposition, monitoring 4419
Leptinotarsa decemlineata 10833
parasitoids 4886
Liriomyza trifolii 9055
Lymantria dispar 7954, 8869
parasitoids 11815
Macrosiphum rosae 786
Malacosoma disstria, pathogens 5971
Ostrinia nubilalis 4642
Otiorynchus ligustici 10651
Oulema melanopus, parasitoids 7882
Panonychus ulmi 8629
Phyllonorycter blancardella 8603, 10699
parasitoids 9408
Phytoseiidae 11432
Picea mariana, insect pests 7942
Pieris rapae 7778
Pinus banksiana, insect pests 5987
Psila rosae 8734
Reticulitermes flavipes 9363, 9465, 11488
pathogens 11950
Scolytidae 7940
small mammals, insecticides, effects 817
Strobilomyia anthracina 5997
Tortricidae 7941, 8605
Prince Edward Island
Broscus cephalotes 10364
Epitrix cucumeris 6921

Canada cont.
Prince Edward Island cont.
groundwater, insecticide residues 10145

Quebec
Aceria tulipae 7671
Acrosternum hilare 7057
Aleyrodidae 9925
Allonemobius fasciatus 3359
Aphididae, predators 6714
apples, arthropods 8612
aquatic insects, insecticides, nontarget effects 11190
Carabidae 6557, 8733
Choristoneura, parasitoids 8840
Choristoneura fumiferana 8865
parasitoids 7054
Deroceras reticulatum 505
fishes, insecticides, effects 11189
forest trees, Coleoptera 821
forests, insecticide residues 7919
Hemeroptera 6537
Leptinotarsa decemlineata 6929
Leptothorax 195, 2428
Lygocoris communis 8588
Lygus lineolaris 6786, 9651, 11646
parasitoids 6652
man, insecticides, effects 7201
Meteorus trachynotus 9416
Mythimna unipuncta, natural enemies 6536
Palaeomyia 8846
Paradiplosis tumifex, pathogens 5972
Pissodes strobi 3032
Polydrusus cerinus 2989
Tortricidae 8605

Saskatchewan
Acrididae 4438
Acyrtosiphon pisum 1533
Amelanchier alnifolia, insect pests 7721
Diuraphis noxia 9543
forest trees, insect pests 7063
Mamestra configurata, parasitoids 6867
Sitodiplosis mosellana 2610
parasitoids 6705
Sonchus arvensis, natural enemies 8419

Canary Islands
avocados, arthropod pests 1574
Cryptus 6581
Dactylopius coccus 4561
Danaus plexippus 6656
ornamental plants, protected cultivation, conferences 9125
plant pathogens, conferences 9128
Symphyta 11395

Canavalia ensiformis, *Medythia quaterna*, Africa 6456

Candida, *Cossonus rotundicollis*, interactions 8908

Candida silvae, *Cossonus rotundicollis*, interactions 8908

Candida silvicola, *Cossonus rotundicollis*, interactions 8908

Candidula, predators 3522

Cannabis sativa (see Hemp)

Cantaloupes (see Melons)

Cantharidae
distribution, Poland 6465
Japan 1863
prey
Aphididae 1433
Toxoptera odinae 1863
wheat, fields, German Federal Republic 1433

Cantharoidea, phylogeny 6248

Canthecona furcellata
aubergines, fields, India 3504
prey, insects 3504

Cantheconidea furcellata
mangoes 4800
plant pathogens, transmission 4800
prey, *Rivula* 8713
soyabeans, fields, India 8713

Canthium mundianum, *Afromerus lindquisti*, South Africa 11829

Canthium parviflorum, *Orthezia insignis*, India 3979

Canthon cyanellus
biology, behaviour 9615
pastures, Mexico 9615

Cape Verde
Abacarus sacchari 9525
arthropod pests, biological control 907
crops, arthropod pests 151, 3133
Lepidoptera, parasitoids 262
Salticidae 11386

Capers (see *Capparis spinosa*)

Capilure (see Trimedlure)

Capitophorus carduinus
Cirsium arvense, German Federal Republic 3611
ecology, population dynamics 3611

Capitophorus elaeagni, distribution, Jordan 5392

Capnoctis tenebrionis
biology, oviposition 4356
Spain 4356

Capparis spinosa
arthropod pests, Italy 9745
Colotis evagore, Spain 1408

Capsella bursa-pastoris
insect pests 10521
Phyllopertha horticola, damage 10521
Rhopalus tigrinus, Pennsylvania 335
Thrips palmi 10510

Capsicum
Agrotis ipsilon, Taiwan 1604
Amblyseius lynnae, Peru 5763
Anthonomus eugenii
Puerto Rico 9858
yield losses 9857
Aphididae, Afghanistan 6853
arthropod pests, Sicily 11655
commodities, *Cryptolestes cornutus* 6044
Delia antiqua 715
Helicoverpa assulta 4898
Ostrinia nubilalis, Italy 2893
pest control, Asia, reports 2119
Spodoptera exigua 594
Thrips palmi
Japan 4907
Martinique 3838

Capsicum annum
Acari, Panama 1713
Anthonomus eugenii
damage 1718
Guatemala 4906
Aphididae 9856, 10852
Aphis gossypii, India 1603
arthropod pests
biology 6233
control 6233
damage 6233
natural enemies 6233
yield losses 735
Bemisia tabaci, Mexico 7845
Cryptozona belangiri, India 3834
Delia antiqua 715
fields, predatory arthropods, California 6642
insect pests
control, insecticides 2892
India 2892
insecticides, residues 5866
Keiferia lycopersicella 4900
Liriomyza trifolii
Hungary 11782
varietal susceptibility 9743
Macroscytus brunneus, Turkey 2891
Myzus persicae 2894, 5863
Scandinavia 6170
USSR 6122
Scirtothrips dorsalis, India 5867
Thrips tabaci 6121
Thysanoptera 3920
Trialeurodes vaporariorum
USSR 5775
varietal susceptibility 9859

Capsicum annum var. acuminatum, *Anthonomus eugenii*, Mexico 9742

Capsicum frutescens
fields, Hymenoptera, India 9740
Thysanoptera, food preferences 1709

Capsodes infuscatus, *Asphodelus microcarpus* 9129

Captafol
effects, *Chilocorus bijugus* 9682

Captafol cont.
toxicity
Aphelinidae 8387
Scirpophaga incertulas 3714

Captan (3a,4,7,7a-tetrahydro-2-[(trichloromethyl)thio]-1H-isoindole-1,3(2H)-dione)
effects, Hymenoptera 9445
mixtures, nontarget effects, soil arthropods 1731
toxicity, Aphelinidae 8387

Caps, taxonomy 2943

Caps bamptoni
Protea, South Africa 2943
taxonomy, new species 2943

Caps calpurnia
Protea, South Africa 2943
taxonomy, new species 2943

Caps collinsi
Protea, South Africa 2943
taxonomy, new species 2943

Caps cupreus
Protea, South Africa 2943
taxonomy, new species 2943

Caps hermes
Protea, South Africa 2943
taxonomy, new species 2943

Caps juliae
Protea, South Africa 2943
taxonomy, new species 2943

Caps meruensis
Protea, South Africa 2943
taxonomy, new species 2943

Carabidae
Archidispus, interactions 9407
barley, fields, German Federal Republic 2623
behaviour, monitoring 7448
biology 1005, 1185, 2597, 8913, 11468
behaviour 1303, 7448, 10347
cabbages
fields
Finland, reviews 5793
Poland 7780
Calluna, habitats, UK 6470
cereals
fields
German Federal Republic 368
Sweden 4623
UK 371, 3516
checklists, German Democratic Republic 7439
coniferous forests, Finland 4015, 8913
control 1005
cotton, fields, USSR 11772
crops, fields, USSR 8412
Czechoslovakia 2373
distribution
Bulgaria 10363
Connecticut 2474
Europe 158
Netherlands 8315
Scandinavia 4391
Spain 11472
USSR 2377
ecology 1554, 2377, 4015, 5440, 6470, 6539, 10994
ecosystems 4694
habitats 2373, 3542-3543
population dynamics 368, 6557, 8361, 8876, 10446-10448
water relations 2330
Fagus, forests, Belgium 8876
fields
Finland 10577
German Federal Republic 680
Netherlands 6526
Spain 5600
Finland 3542-3543
fire, effects 7670
forests
Belgium 10446
Czechoslovakia 9456
German Federal Republic 1818, 2997
Netherlands 7070
Pennsylvania 9966
Poland 7048
USSR 1802, 10994
France 5440, 8270

Carabidae cont.

- fungicides
 - effects 2038
 - toxicity 2038
- German Federal Republic 277
- grasslands
 - UK 4694
 - Utah 7670
- groundnuts, fields, Alabama 10810
- habitats
 - German Democratic Republic 10470
 - German Federal Republic 2599
 - Minnesota 8361
 - Ohio 10963
 - UK 10351
- herbicides, effects 7780
- insecticides, effects 680, 695-696, 1802, 2618, 4822
- Japan 9407
- Kenya 2330
- maize, fields, Georgia 7608
- meadows, Switzerland 463
- molluscicides, effects 277, 371, 463
- monitoring, traps 5600, 6526, 7670, 8270, 8315, 8361
- moorlands, UK 6539
- morphology 9456
- Netherlands 9100, 10447
- Norway 10347
- orchards, USSR 1554
- pesticides, effects 368, 2623, 6526
- physiology, mandible, forces 2499
- Poland 9344
- potatoes
 - fields
 - UK 695
 - USSR 696
- predators 374, 4493
- prey
 - Aphididae 2599, 8468
 - Delia* 5793
 - Leptinotarsa decemlineata* 696
 - Myzus persicae* 695
 - Noctuidae 9502
 - Rhopalosiphum padi* 10577
 - Sitobion avenae* 3516, 8470
 - Spodoptera frugiperda* 7608
- Quebec 6557
- rape, fields, Poland 4822
- roadside plants, habitats, Mississippi 9502
- sodium pentachlorophenol, toxicity 2997
- soil, Italy 2983
- Spain 1185, 11468
- sugarbeet, fields, German Federal Republic 4873
- Switzerland 374
- taxonomy 3234, 10364, 11468
- Turkey 1005
- wheat
 - fields 2038
 - German Federal Republic 8468
 - UK 8470
 - USSR 2618
 - Wyoming 4493
- zoogeography 9344
- Carabus**, distribution, Korea Democratic People's Republic 2365
- Carabus arcensis**
 - Picea*, forests, USSR 4537
 - prey, invertebrates 4537
- Carabus auronitens**
 - biology, behaviour 2481
 - Europe 3512
 - taxonomy 3512
- Carabus coriaceus**
 - Picea*, forests, USSR 4537
 - prey, invertebrates 4537
- Carabus glabratus**
 - Picea*, forests, USSR 4537
 - prey, invertebrates 4537
- Carabus granulatus**
 - German Federal Republic 277
 - molluscicides, effects 277
 - Picea*, forests, USSR 4537
 - prey, invertebrates 4537
- Carabus hampei**
 - insecticides, effects 696
 - potatoes, fields, USSR 696

Carabus hampei cont.

- prey, *Leptinotarsa decemlineata* 696
- Carabus hortensis**
 - Picea*, forests, USSR 4537
 - prey, invertebrates 4537
- Carabus lineatus**
 - Spain 3511
 - taxonomy 3511
- Carabus nemoralis**
 - biology, behaviour 4623
 - distribution, Wyoming 7521
 - forests, Sweden 4623
- Carabus olympiae**
 - Europe 3512
 - taxonomy 3512
- Carabus punctatoauratus**
 - Europe 3512
 - taxonomy 3512
- Carabus splendens**
 - Europe 3512
 - Spain 3511
 - taxonomy 3511-3512
- Carabus taedatus**, Quebec 6557
- Carabus violaceus**, biology, behaviour 9304
- Caradrina kadenii**
 - Italy 9888
 - monitoring, traps 9888
- Caradrina morpheus**, distribution, Italy 9336
- Carambola** (see *Averrhoa carambola*)
- Carausius morosus**
 - physiology
 - development 2171
 - endocrine system 1048
 - movement 5318
 - muscles 4325, 6324, 9218
 - nervous system 9223
 - senses 6344
 - vitellogenins 2256
- Caraway** (*Carum carvi*)
 - extracts, toxicity, *Tyrophagus putrescentiae* 4067
 - insecticides, residues 1407
- Carbamate**, mixtures, control, *Phyllocop-truta oleivora* 9720
- Carbamate insecticides**
 - analysis 7172
 - control, *Platynota idaeusalis* 8585
 - degradation 3201
 - effects, plant pathogens 11206
 - metabolism, reviews 10180
 - mixtures, control, sugarbeet, arthropod pests 8728
 - nontarget effects 7174
 - Cicer arietinum* 1672
 - residues
 - sea water 9091
 - soil 5213
 - resistance
 - Chrysoperla carnea* 2509
 - insects 7178
 - Nephotettix cincticeps* 10110
 - toxicity
 - Callosobruchus maculatus* 1672
 - Delphacidae 10104
 - Heliothis virescens* 11978
 - Sitophilus oryzae* 7174
- Carbamate pesticides**
 - determination 2379
 - toxicity, Acari 2880
- Carbaryl** (1-naphthalenyl methylcarbamate)
 - adsorption, soil 11231
 - analysis 1198
 - bioassays 3203
 - control
 - Acrididae 9627
 - Agrilus ruficollis* 3761
 - Agrotis ipsilon* 4942
 - Amrasca biguttula* 601, 2793, 8669, 9756
 - Amrasca devastans* 3840, 7842
 - Amsacta albistriga* 2846
 - Amsacta moorei* 11718
 - Annona muricata*, insect pests 1596
 - apples, insect pests 4746
 - aubergines, insect pests 6947, 7840, 11758-11759
 - Bradysia odoriphaga* 1706
 - cabbages, insect pests 4823
 - Cicadellidae 2887

Carbaryl cont.

- control cont.
 - cotton, insect pests 4919
 - Diabrotica virgifera* 10595
 - Diatraea* 8515
 - Diploschema rotundicollis* 4776
 - Eudocima* 1585
 - greenhouse crops, insect pests 5162
 - groundnuts, insect pests 665
 - Helicoverpa armigera* 7669, 8726, 9865
 - Hieroglyphus banian* 3713
 - Hodotermes mossambicus* 2670, 6751, 11601
 - Idioscopus* 6851
 - Lepidoptera 747, 6970
 - Leptocoris oratorius* 11574
 - Lipaphis erysimi* 2807
 - Listronotus texanus* 2861
 - Melanagromyza obtusa* 5830
 - Noctuidae 2662, 3671
 - Oebalus pugnax* 9597
 - Oides scutellata* 8574
 - onions, insect pests 8750
 - Ophiomyia phaseoli* 6888
 - Phthorimaea operculella* 8744
 - Psylliodes plana* 3900
 - Quadraspidiotus ostreaeformis* 5719
 - Rhynchaenus mangiferae* 584
 - Ricania sublimbata* 1577
 - rice, insect pests 10628
 - rice tungro virus, vectors 9583
 - Scarabaeidae 9626
 - Spilosoma obliqua* 2729
 - Syllepte derogata* 6962
 - Tetranychus macfarlanei* 11761
 - Thrips tabaci* 714
 - tomatoes, insect pests 3917
 - Udea ferrugalis* 7803
- degradation
 - Athrobacter* 7192
 - Phaseolus vulgaris* 629
- detection 3442
- determination 4177, 7173
- effects
 - Achaea janata* 7187
 - Amblyseius victoriensis* 8632
 - Annelida 10126
 - Aphis craccivora* 6166
 - cotton 11775
 - fishes 10127
 - mites 5711
 - nitrogen fixing bacteria 10136
 - parasitoids 2846
 - Phytoseiulus persimilis* 8630
 - rice 6720
 - sorghum 1497
 - stored products pests 3062
 - weeds, litter, arthropods 6653
 - zooplankton 972-973
- filtration 1993
- mixtures
 - control
 - Diatraea* 8515
 - groundnuts, insect pests 665
 - Leptinotarsa decemlineata* 2873
 - Mythimna separata* 7653
 - Oligonychus indicus* 2664
 - effects
 - rice 6720
 - Trichoplusia ni* 9049
 - toxicity
 - algae 12003
 - Helicoverpa armigera* 2854
 - Spilosoma obliqua* 1953
 - Spodoptera litura* 9590
- nontarget effects
 - Apis mellifera* 11199
 - Pheretima posthuma* 7203
- penetration, clothing 6176
- persistence, environmental factors, effects 11982
- rain, effects 8087
- removal, clothing 3204
- residues
 - aubergines 6947, 7841, 7844
 - cotton 2912
 - crops 606
 - Cucurbitaceae 11705
 - determination 1845, 11984

Carbaryl cont.

residues cont.
estimation 5084
groundwater 11984
honey 962
okras 9757
peas 5807
Pinus ponderosa 1845
plants 3442
Pleurotus 9751
potatoes 7822
rice 10607, 11574
sea water 9091
sesame 2897
soil 5213, 7226
tobacco 4945
commodities 5084
tomatoes 4905
resistance
Aphis gossypii 7761
Aphytis melinus 2762
Sogatella furcifera 7652
solar radiation, effects 11972
synergism 5193, 11688
toxicity
Achaea janata 1721
Acrida exaltata 186
algae 12003
Allorhogas pyralophagus 9528
Anomis sabulifera 7190
Ceraeochrysa cubana 10461
Chelonus blackburni 1280
Choristoneura occidentalis 3002
Deporaus marginatus 11674
Dysdercus albofasciatus 6983
Earias vittella 5194
Epilachna ocellata 2872
Epilachna vigintioctopunctata 5846
fishes 6174
Helicoverpa armigera 2854, 11987
Leptocorisa acuta 11178
Meloidae 3842
Mylabris phalerata 10808
Rhyzopertha dominica 5091, 5093
Scirpophaga incertulas 432
Spodoptera frugiperda 404, 11919
Spodoptera litura 3164, 9590
stored products pests 7984
Tribolium castaneum 5193, 11972, 11982
Trichogramma brasiliense 11451
Vigna unguiculata 8701
with molasses, control, *Otiorthynchus sulcatus* 3770
with parathion-methyl, control, *Hieroglyphus banian* 3713
with sulfur control
Amrasca biguttula 8669
Amrasca devastans 7842
Tetranychus macfarlanei 2795, 11761

Carbendazim

control, *Atherigona approximata* 5632
effects
Chilocorus bijugus 9682
Hymenoptera 9445
nuclear polyhedrosis viruses 9009
metabolism, *Rhizoglyphus echinopus* 11168
mixtures
control
Atherigona approximata 5632
cotton, Lepidoptera 7853

toxicity

Aphelinidae 8387
Heterorhabditis bacteriophora 8981
Scirpophaga incertulas 3714

Carbicron (see Dicrotophos)

Carbofuran (2,3-dihydro-2,2-dimethyl-7-benzofuranyl methylcarbamate)
adsorption, soil 8143
antifeedants, *Sogatella furcifera* 431
application 7942
bioassays 3203
control
Agrypnus variabilis 8658
Aloephagus myersi 8800
Amrasca devastans 11774
Anoplophora maculata 1815
Aonidiella aurantii 781

Carbofuran cont.

control cont.
Atherigona 416
Atherigona soccata 7666, 11585
Atomaria linearis 682
aubergines, insect pests 11759
Bagrada hilaris 5795
beet western yellows luteovirus, vectors 1613
Blissus leucopterus 7613
Bothynoderes punctiventris 6912
Cassida 2856
Cephus 6701
Chaetocnema 7910
Cicadellidae 2887
Coleoptera 2803
Contarinia 4977
Cosmopolites sordidus 3823, 4796
Costelytra zealandica 11598
cotton, insect pests 4932-4933
Delia radicum 1617, 3892, 6911, 8674, 8686
Diabrotica virgifera 9567
Diptera 5606
fungi 11202
Hypera postica 8791
jute, arthropod pests 2928
Laodelphax striatella 1474, 11538
Lissorhoptrus brevirostris 8507
Lygus 2680
Macrotermes natalensis 4010
maize, insect pests 9573
Melanagromyza obtusa 11719
Nephotettix virescens 9584
Noctuidae 5813
Odoiporus longicollis 10741
okras, Hemiptera 9754
onions, insect pests 9845
Ophiomyia phaseoli 639, 3875
Orthoptera 11994
Oscinella frit 4649, 6718
Otiorthynchus ligustici 1409
peas, insect pests 2825
Picea glauca, insect pests 7913
Picea mariana, insect pests 7942
Populus canadensis, insect pests 5917
Pyralidae 2838
rice, insect pests 2644, 2653, 4666, 7649
rice tungro virus, vectors 9583
Scarabaeidae 10788, 11743
Scirpophaga excerptalis 9529
Scirpophaga incertulas 3688, 5646
Solanum integrifolium, insect pests 9854
Spodoptera frugiperda 8497, 9562
Spodoptera litura 8789
sugarbeet, arthropod pests 11739
sugarcane, insect pests 4611
Thrips palmi 10751
Thrips tabaci 7829
tomatoes, insect pests 1714
Tortricidae 7941
Vigna mungo, insect pests 2830
Vigna radiata, insect pests 2831
Viteus vitifoliae 10682
degradation
Athrobacter 7192
soil 7225, 9099, 9567
detection 3442, 9348
effects
Abutilon theophrasti 6632
Azolla pinnata 6669
birds 7213
cereals 2605
Costelytra zealandica 11597
Diabrotica virgifera 4650
fungi 11204
maize 6708
nitrogen fixing bacteria 10136
Noctuidae 10802
pearl millet 7615
rice 5633, 6720-6721, 7617, 9577
soil, microorganisms 2041
sorghum 7656, 9602
filtration 1993
herbicides, interactions 9567
mixtures
control
Lipaphis erysimi 618

Carbofuran cont.

mixtures cont.
control cont.
plant pathogens, vectors 11713
Scirpophaga incertulas 5646
effects, sorghum 9602
nontarget effects, groundnuts, nodulation 8718
residues, soil 2058
toxicity
invertebrates 11212
Nephotettix virescens 9599
movement 10606
soil 2054, 8138, 10817
nontarget effects 4175
algae 6726
Anabas testudineus 8094
aquatic organisms 2039
Araneae 11592
Braconidae 10802
cereals 7580
fishes 2030
Jalysus wickhami 4946
mammals 8109
man 9071, 11994
rabbits 3185
soil, microorganisms 4932
soil arthropods 1731
persistence, soil 4624
residues
determination 2058, 6186
goats 6727
groundwater 6204, 10606
honey 962
plants 3442
rice 1480
fields 7207
soil 2058, 5213, 6186, 11138, 11225, 11598
Vigna mungo 2840
water 9348
toxicity
birds 8116
Cornitermes cumulans 4624
Diabrotica undecimpunctata 6162, 9099
Earias vittella 5194
fishes 6174
Folsomia candida 12006
Heterorhabditis bacteriophora 8981
Nephotettix virescens 9599
Oryctes rhinoceros 497
Picea glauca 7913
Somaticus 5627
Somaticus geniculatus 6716
Tetranychus urticae 1697
with herbicides, control, *Diabrotica* 4647
Carbohydrates, effects, *Helicoverpa zea* 4366
Carbon dioxide
attractants, *Costelytra zealandica* 5221
control
museum specimens, insect pests 1889
stored products pests 8934
effects
Bactrocera cucurbitae 2395
insects, reviews 3153
Junonia coenia 338, 11376
Pyrrhocoris apterus 3269
Spodoptera exigua 7864
Tribolium confusum 3064
mixtures
fumigants, *Trogoderma granarium* 4055
toxicity, *Tribolium castaneum* 7181, 8948
nontarget effects, museum specimens 1889
toxicity
stored products pests 845
Tribolium castaneum 8948
Carbon tetrachloride, effects, *Bruchidius atrolineatus* 7111
Carbophenothion (S-[(4-chlorophenyl)thio]methyl] O,O-diethyl phosphorodithioate)
control, *Drosicha mangiferae* 5764
nontarget effects, aquatic organisms 2039

- Carbophenothion** *cont.*
resistance, *Tetranychus urticae* 9058
- Carbophos** (see Malathion)
- Carbosulfan** (2,3-dihydro-2,2-dimethyl-7-benzofuran-yl [(dibutylamino)thio]methylcarbamate)
control
Epitrix hirtipennis 9890
Macrotermes natalensis 4010, 5041
maize, insect pests 9573
Mythimna venalba 11566
Oscinella frit 4649, 6718
Psylliodes chrysocephala 3850
Quadraspidiotus perniciosus 11652
Rhipiphorothrips cruentatus 2776
Scirpophaga incertulas 3688
sugarbeet, insect pests 2859
Thrips tabaci 4897
- effects
Beauveria bassiana 5110
Macrophomina phaseolina 2036
mixtures, control, cotton, insect pests 746
nontarget effects, rabbits 3185
residues, rice, fields 7207
resistance, *Scirtothrips citri* 5750, 11163
synergism 2036
toxicity
Clavigralla gibbosa 9810
Folsomia candida 12006
Nephotettix virescens 11567
- Carboxin**, mixtures, nontarget effects, soil arthropods 1731
- Carboxylic acids**
oviposition deterrents, *Delia radicum* 8675
synthesis 6481
toxicity, Lepidoptera 6481
- Carcasses**, *Nicrophorus*, New Hampshire 11367
- Carcelia**
hosts, Lepidoptera 1744
jute, fields, Pakistan 1744
- Carcelia matsukarhae**
China 1334
hosts, *Dendrolimus tabulaeformis* 1334
- Cardamine cordifolia**
insect pests, damage 7707
Scaptomyza nigrita, Colorado 6662
- Cardamoms** (*Elettaria cardamomum*)
arthropod pests
biology 6233
control 6233
damage 6233
natural enemies 6233
Metapodistis polychrysa, India 11522
Sarawak, reports 7299
- Cardenolides**, defence, *Danaus plexippus* 6664
- Cardiaspina bilobata**
Eucalyptus regnans, Australia 806
taxonomy, new species 806
- Cardiaspina tetragonae**
Eucalyptus tetragona, Australia 806
taxonomy, new species 806
- Cardiaspina tetrodontae**
Eucalyptus tetrodonta, Australia 806
taxonomy, new species 806
- Cardiastethus nazarens**
Israel 1182
prey, arthropods 1182
- Cardiochiles nigriceps**
biology
behaviour 4856
reproduction 3539
fields, Georgia 4856
hosts
Helicoverpa zea 4856
Heliothis virescens 3539
- Cardiochiles sahelensis**, fields, Sahel 9521
- Cardiochiles variegatus**
fields, Sahel 9521
hosts, Noctuidae 9521
- Cardiospermum halicacabum**, *Leptocoris augur*, India 7896
- Cardueae**, Coleoptera 6645
- Carduus**, *Uroleucon*, German Federal Republic 1392
- Carduus acanthoides**
Agapanthia dahli, Hungary 4910
- Carduus acanthoides** *cont.*
Trichosirocalus horridus, Virginia 9496
- Carduus nutans**, invertebrates, New South Wales 2572
- Carduus pycnocephalus**, invertebrates, New South Wales 2572
- Carduus tenuiflorus**, invertebrates, New South Wales 2572
- Carduus thoeimeri**, *Trichosirocalus horridus*, Virginia 9496
- Carebara vidua**
biology, behaviour 5427
South Africa 5427
- 3-Carene**
attractants
Coleoptera 822
Tomicus piniperda 5037
- Carex**, *Chlorotettix meriscus*, Ohio 465
- Carex nigra**, *Bactra suedana*, Europe 11599
- Caribbean**
Curculionidae 9
Diaprepes abbreviatus 8645
Formicidae 11420
Heteropsylla cubana 6455
parasitoids 7045
Homoptera, parasitoids 11431
insect pests, maps 6460
Merobruchus 3249
Mocis repanda 6459
pest control, information 5150
Platypus parallelus 6456
Rhopalocera 5384
Schistocerca gregaria, conferences 1016
- Carica papaya** (see Pawpaws)
- Carica pentagona**, arthropod pests, Italy 6826
- Carineta fasciculata**
coffee, Brazil 9895
morphology 9895
- Carineta matura**
biology 9895
coffee, Brazil 9895
morphology 9895
- Carineta spoliata**
biology 9895
coffee, Brazil 9895
morphology 9895
- Carinodes**
Gramineae, fields, Brazil 5601
hosts, Noctuidae 5601
- Carinodula**, taxonomy, new genus 8895
- Carinodula campbelli**
forest litter, Mexico 8895
morphology 8895
prey, Homoptera 8895
taxonomy, new species 8895
- Carnations** (*Dianthus caryophyllus*)
arthropod pests, Israel 10884
Epichoristodes acerbella, Italy 2944
Frankliniella occidentalis, Italy 9921
Helicoverpa armigera, damage 6997
Macrosicyus brunneus, Turkey 2891
pest control, Hawaii 9910
Tetranychus urticae 6120
Thrips simplex 6454
- Carneocephala fulgida**
grapes, California 1549
plant pathogens, transmission 1549
- Caropa procera**, extracts, deterrents, *Diabrotica undecimpunctata* 1414
- Carophyllene**, effects, Formicidae 2429
- Carotenoids**
Cerambycidae 3341
effects, predatory mites 4515
- Carp**
control, rice, insect pests 7703
insecticides
effects 6183, 8121, 11201
residues 937
toxicity 6174, 8123
pesticides, effects 2031
prey, *Anabrus simplex* 7500
- Carpel**, insecticides, residues 6020
- Carphoborus bicornus**, *Pinus*, USA 9962
- Carphoborus kushkensis**, forest trees, USSR 2948
- Carpinus**
Aphididae, Czechoslovakia 4011
- Carpinus** *cont.*
forests
Chilopoda, Poland 7049
Gastropoda, Poland 6615
insects, Poland 7048
- Carpinus betulus**
litter, *Glomeris marginata*, France 1857
Tenthredinidae, Poland 4038
- Carpinus laxiflora**, *Dryocoetes carpinivorus*, Korea Republic 5046
- Carpocapsa pomonella** (see *Cydia pomonella*)
- Carpocoris**
parasitoids 5933
Pinus, Italy 5933
- Carpoglyphus lactis**, figs, commodities, damage 11050
- Carpomyia vesuviana**
biology 3013
control, insecticides 8637
parasitoids 6847
Ziziphus mauritiana, India 3013, 6847, 8637
- Carpophilus**, garlic, USSR 720
- Carpophilus dimidiatus** group, *Annona cherimola* × *A. squamosa*, Florida 4804
- Carpophilus freemani**
figs, Iran 566
plant pathogens, transmission 566
- Carpophilus hemipterus**
Annona, pollination 1595
distribution, Saudi Arabia 143
Hawaii 1971
natural enemies 1971
pheromones 8233
physiology, nutrition 5294
plant extracts, effects 8498
- Carpophilus humeralis** (see *Urophorus humeralis*)
- Carpophilus mutilatus**
distribution, Saudi Arabia 143
monitoring, traps 174
Saudi Arabia 174
- Carpophilus obsoletus**
figs, Iran 566
plant pathogens, transmission 566
- Carposina niponensis**, pathogens 3086
- Carposina niponensis** auct. (see *C. sasakii*)
- Carposina sasakii**
biology, reproduction 7725
Japan 7725
- Carrots** (*Daucus carota*)
Agrotis segetum 10821
Denmark 3832
Agrypnus variabilis, New South Wales 8658
arthropod pests, German Democratic Republic 7550
Calliphoridae, pollination 8661
Coleoptera, Poland 10820
damage 4876
Diplopoda, India 2855
fields
Carabidae, Quebec 8733
Coccinella septempunctata, Poland 10820
Hemiptera, Poland 4878
insects, pollination 6913
Listronotus texanus, Texas 2861
- Carrots**, *Lygus lineolaris*, USA 1397
- Carrots**
Papilio polyxenes 6421
pest control, Martinique 1678
Psila rosae 1598
Finland 4877
Netherlands 3899, 4870, 5840, 8735
Ontario 8734
resistance 686-687, 10823
Switzerland 3894, 4879
UK 10819
Sarasinula plebeia 312
Trioza apicalis 9825
- Carsidaridae**
ecology 10240
morphology 10240
Panama 10240
taxonomy 10240
- Cartap** (S,S'-[2-(dimethylamino)-1,3-propanediyl] dicarbamothioate)

Cartap *cont.*
control
 Aproaerema modicella 6906
 Lipaphis erysimi 6854
 Liriomyza 623
 Liriomyza trifolii 11782
 Plutella xylostella 9765
 rice, insect pests 8503, 10628
 sugarcane, insect pests 4611
 mixtures, control, *Liriomyza* 623
 physicochemical properties 930
 resistance, *Plutella xylostella* 7779
 toxicity
 Macrocentrus linearis 7511
 Plutella xylostella 10106

Carthamus, *Chaetorellia acrolophi*, Europe 6639

Carthamus tinctorius (see Safflower)

Carulaspis minima, predators 10452

Carum carvi (see Caraway)

Carya
insect pests
 biology 5718
 control 5718
 identification 5718
Carya glabra, *Popillia japonica* 11820
Carya ovata, *Lophocampa caryae*, Virginia 8920
Carya pecan (see Pecans)

Caryedes canthylogaster
 Bauhinia siqueiraei, Venezuela 3083
 taxonomy, new species 3083

Caryedes spyripygus
 Bauhinia, Venezuela 3083
 taxonomy, new species 3083

Caryedes viridipennis
 Bauhinia rutilans, South America 3083
 taxonomy, new species 3083

Caryedon bauhiniidus
 Bauhinia, India 6270
 taxonomy, new species 6270

Caryedon congensis (see *C. crampeli*)

Caryedon crampeli
 parasitoids 5831
 Piliostigma thonningii, Congo 5831

Caryedon serratus
 biological control agents, evaluation 5831
 biology 7993
 control, dusts 7094
 ectoparasites 3514
 food plants, Congo 5831
 forest trees, commodities, India 10049
 groundnuts, commodities 4465, 7094, 7993
 Ivory Coast 3514
 parasitoids 4465
 Piliostigma thonningii, Congo 5831

Caryophyllene epoxide, effects, Formicidae 2429

Caryoborus
 biology, behaviour 8968
 Palmae, commodities, Brazil 8968

Caryobruchus
 biology, behaviour 8968
 Palmae, commodities, Brazil 8968

Caryophyllene
 effects, *Anthonomus grandis* 8772
 toxicity, *Heliothis virescens* 11167

Caryophyllene oxide, toxicity, *Heliothis virescens* 11167

Casein, effects, *Lymantiria dispar* 7024

Cashews (*Anacardium occidentale*)
 commodities
 Corcyra cephalonica 7995
 insect pests 867
 insecticides, residues 3443
 Helopeltis antonii, India 6799
 Hilda patruelis 6458
 plantations, *Erythmelus helopeltidis*, India 6799

Casinaria
 biology 9422
 China 9422
 hosts, *Semiothisa cinerearia* 9422

Casinaria nigripes
 biology 7019
 forests, China 7019
 hosts, *Dendrolimus punctatus* 7019

Casphalia extranea, cell lines, pathogens 11933

Cassava (*Manihot esculenta*)
 Aleyrodidae, Colombia 711, 11747
 arthropod pests
 Asia 3416
 Brazil 1700
 Colombia, reports 712
 Trinidad and Tobago 1701
 attractants, Phytoseiidae 11745
 bibliographies 9113, 11241
 Diplopoda, India 2855
 Erinnyis ello
 Brazil 8748
 Colombia 4890
 Euseius beninensis, Benin 2876
 fields
 Amblyseius limonicus, Colombia 9841
 beneficial insects
 Colombia 711
 Congo 2100, 5852
 Epidinocarsis lopezi
 Africa 6934, 9842, 10836
 Congo 6935
 Nigeria 6936
 West Africa 11746
 Telenomus sphingis, Colombia 4890
 insect pests, Brazil 8335
 Mononychellus, East Africa 2938
 Mononychellus tanajoa 9840, 11745
 Africa 2875, 7276
 Colombia 713
 Nigeria 9839
 resistance 6932
 pest control 1701, 9113, 11241
 bibliographies 2081
 Zimbabwe 1600
 Phenacoccus herreni, damage 2878
 Phenacoccus manihoti 2877, 4892-4893
 Africa 6934, 9842, 10836-10837
 Congo 2100, 5851-5852, 6935
 Nigeria 710, 6936
 resistance 6933
 West Africa 11746
 Phytoseiidae, Africa 2876
 Pseudothrips devastans 1702
 Tetranychidae, Colombia 9841
 Zonocerus variegatus, Africa 5417

Cassia fistula
 extracts, effects, *Lipaphis erysimi* 614
 Indarbela quadrinotata, India 5010

Cassia obtusifolia, *Anticarsia gemmatilis* 11683

Cassida
 Cardueae 6645
 morphology, size 6645

Cassida nebulosa
 control, insecticides 2856
 parasitoids 2856
 sugarbeet, USSR 2856

Cassida nobilis
 control, insecticides 2856
 sugarbeet, USSR 2856

Cassida rubiginosa
 Cirsium arvense, USSR 11510
 plant pathogens, transmission 11510

Cassine burkeana, *Tegoprionus bicristatus*, South Africa 9926

Castanea, *Dryocosmus kuriphilus*, China 7937

Castanea crenata
 Dryocosmus kuriphilus
 galls 9672
 Japan 7022
 forests, *Torymus*, Japan 7022
 orchards, *Torymus sinensis*, Japan 9672

Castanea sativa (see Chestnuts)

Castanopsis
 insect pests
 Australia 4006
 damage 4006
 USA 4006

Castanopsis chrysophylla
 forests, parasitoids, Oregon 3998
 Phryganidia californica 3997
 Oregon 3998

Castanopsis cuspidata, Chrysomelidae, Japan 2953

Castanopsis sempervirens, *Phryganidia californica* 3997

Castanopsis sieboldii, *Celastrina argiolus*, Japan 2957

Castanospermum australe, *Pseudococcus longispinus* 10976

Castianeira
 grasslands, Utah 3729
 prey, Miridae 3729

Castilleja, *Polymerus castilleja*, USA 5560

Castilleja indivisa, *Heliothis phloxiphaga*, Texas 3291

Castilleja integra, *Occidryas chalcidona*, Colorado 6628

Castnia licus
 control, insecticides 6684
 sugarcane, Brazil 6684

Castor (see *Ricinus communis*)

Castor oil
 effects, *Aphis craccivora* 6887
 phagostimulants, *Achaea janata* 7411
 toxicity
 Sitophilus oryzae 7110
 Vigna mungo 6887

Casuarina, *Crossotarsus externedentatus* 6457

Casuarina cunninghamiana
 Pseudanaphothrips casuarinae, Australia 9991
 wood, *Mordella sydneyana*, New South Wales 3066

Casuarina paludosa, *Pseudanaphothrips casuarinae*, Australia 9991

Casuarina stricta, *Stigmodera suturalis*, Australia 4007

Cataglyphis bicolor, biology, behaviour 11427

Cataglyphis cursor
 biochemistry, carbohydrates 9387
 biology, behaviour 10415
 France 9387

Cataglyphis iberica
 Europe 8328
 prey, insects 8328

Cataglyphis savignyi
 Egypt 10407
 morphology, glands 10407

Catalogues
 Apidae, developmental stages 8195
 aquatic insects 8172
 Australia 12031
 Cicer arietinum, pest resistance 10202
 Coleophoridae 2103
 Coleoptera, Australia 12032
 Cryptostigmata, Oriental Region 6237
 Dermaptera 11250
 Diptera
 Oceania 3219
 Palaeartic Region 5232
 integrated pest management, teaching materials 7286
 natural enemies, data banks 4237
 parasitoids, Nicaragua 9454
 predatory insects 5235
 Scarabaeoidea 9123

Cataloipus fuscocoeeruleipes, pathogens 7136

Catana parcesetosa (see *Serangium parcesetosum*)

Catantopinae
 India 6271
 taxonomy 6271

Catantops humilis (see *Xenocatantops humilis*)

Catantops splendens (see *Stenocatantops splendens*)

Cataremna albicostallis, pomegranates, India 1591

Catharanthus roseus
 extracts
 antifungal agents, *Beauveria bassiana* 11498
 effects, Noctuidae 6216
 insecticides, effects 4200
 Psammotettix cephalotes 3785

Catharsius pithecius, Acari, interactions 2144

Cathartus quadricollis
 maize, commodities, Togo 3054
 pheromones 4056

Catocala faustina
 Colorado 10438

- Catocala faustina* cont.
predators 10438
- Catocala fraxini*, distribution, Italy 9336
- Catocala nupta*
biology 4989
food plants 4989
Spain 4989
- Catocala nymphagoga*
biology 4989
food plants 4989
Spain 4989
- Catocala sponsa*
biology 4989
food plants 4989
Spain 4989
- Catocalinae*, Spain 4989
- Catochrysops cnejus* (see *Euchrysops cnejus*)
- Catolaccus aeneoviridis*
California 4590
hosts, *Coleophora klimeschiella* 4590
- Catopidae*, taxonomy 2130
- Catorhintha*
biology 349
food plants, America 349
taxonomy 349
- Catostomus latipinnis*, prey, *Anabrus simplex* 7500
- Cattle dung**
Ataenius robustus, Mississippi 10491
attractants, Scarabaeidae 11495
Hydrophilidae, North America 7306
Labidura riparia, Egypt 5455
mixtures, control, *Callosobruchus chinensis* 8932
Scarabaeidae, Japan 9470
Scarabaeoidea, Spain 1359, 8398
- Cauliflower mosaic caulimovirus**, vectors, *Myzus persicae* 1703, 8671
- Cauliflowers** (*Brassica oleracea* var. *botrytis*)
Aphididae 5770
Brevicoryne brassicae 1618, 9763
India 8683, 10772
Delia radicum 8675
Belgium 9770
Czechoslovakia 1617
- fields
beneficial insects, India 10772
Cotesia plutellae, Pakistan 225
Eupeodes, India 8683
habitats, *Telenomus remus* 8370
Hellula undalis 9769
insect pests
economic thresholds 2806
German Federal Republic 8674
resistance 9759
insecticides, residues 3442, 3856, 9770, 10760, 11697
Lepidoptera, Ontario 4835
Meligethes aeneus, Finland 5786
Pieris brassicae, India 611
Pieris rapae, Ontario 7778
Plutella xylostella
India 11694
Pakistan 225
varietal susceptibility 5780
soil, insecticides, residues 12007
Spodoptera litura 8370, 8996
- Caulophyllum robustum**, *Epilachna yasutomii*, Japan 1385
- Cavelerius saccharivorus**
morphology, wings 5587
sugarcane, Japan 5587
- Cavelerius sweeti**
control, insecticides 4606, 4610
sugarcane, India 4606, 4610
- Cayratia japonica**
Aphis gossypii 7562
Japan 1374
- Ceanothus velutinus**, arthropods, Oregon 1865
- Cecidodectes*, taxonomy 10011
- Cecidodectes euzonus*, *Trema orientalis*, South Africa 10011
- Cecidomyia**
control, insecticides 8901
Pinus radiata, California 8901
- Cecidomyia piniinopsis*, *Pinus ponderosa*, California 10940-10941
- Cecidomyiidae**
biology 1304
Cecropia, Ecuador 2952
cocoa, plantations, Costa Rica 3946
control, insecticides 10671
ecology, population dynamics 10445
fungi 4817
Gramineae, India 3731
India 5496
monitoring, traps 3946
mushrooms 11689
Palaeartic Region 5250
parasitoids 212, 1337, 10445
physiology, senses 3315
Pinus banksiana, Ontario 5987
plant oils, attractants 3946
plants, galls, evolution 10445
prey
Aphididae 5496
Tetranychus urticae 8630
small fruits, Belgium 10671
Sphaeralcea angustifolia, Texas 1337
stone fruits, orchards, Queensland 8630
taxonomy 5250, 5252
woody plants, galls 5021
- Cecidophyopsis**, fruits, damage 2694
- Cecidophyopsis ribis**
black currants, USSR 10676
control 10670
currants, USSR 10687
distribution, maps 6455
Ribes 6455
small fruits
German Democratic Republic 10670
Switzerland 5700
- Cecropia**
Azteca, Brazil 5035
Azteca constructor, interactions 2952
insect pests, Ecuador 2952
insects, resistance 9027
- Cecropia obtusifolia**
Azteca constructor, interactions 2952
insect pests
damage 10999
Ecuador 2952
Mexico 10999
- Cedar** (see also *Cedrus*)
- Cedrela**, *Tenuipalpus costarricensis*, Costa Rica 4594
- Cedrela mexicana** (see *C. odorata*)
- Cedrela odorata**, *Crossotarsus externedenatus* 6457
- Cedrobium laportei**
Cedrus atlantica 5007
parasitoids 5007
- Cedrus**
forests, parasitoids, Morocco 7021
Haematoloma dorsatum, damage 5968
Lepidoptera, Morocco 7021
- Cedrus atlantica**
Cedrobium laportei 5007
Choristoneura murinana, France 10991
Graellsia isabellae 1827
insect pests, Morocco 5984
Megastigmus suspectus, France 6005
- Cedrus deodara**
extracts, effects, Isoptera 1794
habitats, *Rhizophagus*, India 1820
Lymantria dispar 8866
oils, effects, *Sitophilus oryzae* 5097
Pityophthorus cedri 804
wood, Isoptera, damage 1794
- Celama sorghiella**
ecology, distribution 3726
parasitoids 3726, 6749
sorghum
Arkansas 3726
USA 6749
- Celastraceae**, extracts, insecticidal properties 4228
- Celastrina argiolus**
Castanopsis sieboldii, Japan 2957
parasitoids 2957
- Celastrus orbiculatus**, *Aphis gossypii*, Japan 7761
- Celery** (*Apium graveolens*)
insecticides, residues 6859
Liriomyza 9739
Florida 6649
Liriomyza trifolii 5911
- Celery** cont.
Liriomyza trifolii cont.
California 7003
resistance 8665
yield losses 2789
Trichoplusia ni 7762
- Cell cultures**
Arcyptera fusca 1214
arthropods 1099
Bombyx mori 9221
identification 5111
insecticides, effects 976
invertebrates, books 3216
Lepidoptera 11411
Spodoptera frugiperda 165-166
Tenebrio molitor 95
- Cell lines**
Antheraea eucalypti, pathogens 4142
Anticarsia gemmatilis, pathogens 4095
Bombyx mori
pathogens 6604, 10061
replication 9469
Choristoneura fumiferana, insect viruses 4116
Cicadellidae, plant viruses, infection 875
Drosophila
hormone antagonists, effects 11236
pathogens 1944
Drosophila melanogaster 98
growth regulators, effects 7326
metabolic inhibitors, effects 11335
Helicoverpa zea, pathogens, development 7146
Heliothis virescens, bioassays 11167
insects
genetic engineering 8033
insecticides, toxicity 8014, 8017
pathogens 3108
Lepidoptera 11411
insecticides, toxicity 10060
organic compounds, effects 6490
pathogens 4140, 11933
Mamestra brassicae, pathogens 11089
Noctuidae 3449
pathogens 11090, 11097, 11107
Pieris rapae, pathogens 1957
silkworms, pathogens, cloning 7145
Spodoptera, insecticides, pathogenicity 1939
Spodoptera frugiperda
antigens, detection 4124
biochemistry 8044
enzymes, production 11108-11109
pathogens 1955, 4090, 4101, 5308, 6061, 7133-7134
genetic engineering 10081
growth regulators 7232
properties 5287
Spodoptera litura 6078
Trichoplusia ni, enzymes, effects 882
Celosia argentea, mulches, control, Isoptera 7095
Celtis australis, *Nymphalis polychloros*, Spain 1824
Celtis occidentalis, fruits, *Rhyzopertha dominica* 11874
Celtis paniculata, *Libythea geoffroy*, Queensland 10948
Celtis sinensis, *Coccus pseudomagnoliarum*, Japan 2756
Cenchrus biflorus, habitats, *Schistocerca gregaria*, India 3480
Cenchrus ciliaris, Cercopidae, resistance 4679
Cenopalpus lineola
conifers, France 2958
predators 2958
Cenopalpus pulcher, Egypt 324
Centaurea
biological control 6630
Chaetorellia acrolophi, Europe 6639
Uroleucon, German Federal Republic 1392
USA 6630
Centaurea americana, *Eustenopus hirtus* 1379
Centaurea cyanus
Chaetorellia australis 10508
Tephritidae, India 2692

Centaurea diffusa
biological control agents, evaluation 5558, 8191
control, biological control 2570
Eustenopus hirtus 1379
extracts, effects, *Peridroma saucia* 333
insects, Europe 6644
North America 5558
Tephritidae 2570

Centaurea maculosa
biological control agents, evaluation 5558, 8191
control, biological control 2570
habitats, *Dictyna*, Idaho 8422
insects, Europe 6644
Megalonotus chiragrus sabulicolus, USA 4589
North America 5558
Tephritidae 2570

Centaurea nicaeensis, *Eustenopus hirtus* 1379

Centaurea solstitialis
biological control agents, evaluation 1379, 6643
Chaetorellia australis 10508
evaluation 329
Greece 329
Eustenopus hirtus 1379
Greece 329
USA 6643

Centaurea vallesiaca, insects, Europe 6644

Centella asiatica
commodities, *Lasioderma serricorne* 1899
insecticidal properties 2580

Central Africa, pest control, books 11258

Central America
Amblyseius 10235
Anastrepha grandis 2141
Apionidae 157
biological control 5160
Ceratitis capitata 9365
Chalcidoidea 4511
Coleoptera 9329
Curculionidae 9
Formicidae 11420
Heteropsylla cubana 6455
parasitoids 7045
Hypoaspis 11286
insect pests, maps 6460
insecticides, subsidies 1973
Merobruchus 3249
Mocis repanda 6459
oil palms, pollinators 1541
Paradirpha 10690
Pistiacola 9497
Rhopalocera 9297
Sarasinula plebeia 640
tomatoes, insect pests 1712

Centrodora scolypopae
habitats, New Zealand 8559
hosts, *Scolypopa australis* 8347, 8559
morphology, developmental stages 8347
New Zealand 8347

Centrotinae, Venezuela 10

Ceocephalinae, taxonomy 11288

Cepaea hortensis
France 10502
genetics 10502
physiology, metabolism 8408-8409

Cepaea nemoralis
biology 3600
diets 3600
ecology, polymorphism 6618
France 10502
genetics 10502
DNA 5542
phenotypes 7549
population genetics 3599
German Federal Republic 6613
pathogens, isolation 6613
physiology
enzymes 2549
excretory system 9216
polymorphism 2549
Spain 3599, 7549
Virginia 5542

Cephalcia abietis
natural enemies 7904
pathogens 1826
Picea, Denmark 1882

Cephalcia abietis cont.
Picea abies, German Democratic Republic 7904

Cephalcia alashanica, *Picea*, Denmark 1882

Cephalcia arvensis, *Picea*, Denmark 1882

Cephalcia erythrogaster, *Picea*, Denmark 1882

Cephalcia fallenii
biology 9994
Picea, Poland 8880, 9994

Cephalcia isshikii
biology
development 1812
reproduction 1811
Picea 1812
Japan 1811

Cephalcia pallidula, *Picea*, Denmark 1882

Cephalcia variegata
biology 1860
morphology 1860
Pinus pumila, Japan 1860

Cephaloidea, rearing techniques 2392

Cephalonomia
coffee, plantations, Brazil 4951
hosts, *Hypothenemus hampei* 4951

Cephalonomia gallicola
distribution, Czechoslovakia 4405
hosts, *Scolytus pygmaeus* 4405

Cephalonomia hypobori (see *C. gallicola*)

Cephalonomia quadridentata
distribution, Czechoslovakia 4405
hosts, *Anobium* 4405

Cephalonomia stephanoderis, control, *Hypothenemus hampei*, reviews 6987

Cephalonomia waterstoni
attractants 7083
biology, behaviour 7083
hosts, Coleoptera 7083

Cephalops
morphology 8203
taxonomy 8203

Cephalops curtifrons, taxonomy, synonyms, of *Beckerias pannonicus* 8203

Cephalosporium lecanii
hosts
Aphis gossypii 10083
Bombyx mori 9478
Diglyphus begini 10083

Cephidae
biology 7589
cereals, Poland 7589
distribution, Canary Islands 11395

Cephus
cereals, Morocco 6701
control 6701
wheat, USSR 10556

Cephus cinctus
wheat
Canada 7594
resistance 4619

Cephus pygmeus
biology 7589
cereals, Poland 7589
control, cultural control 4614
wheat, Romania 4614

Ceracia
hosts, *Neorthacris acuticeps* 3572
India 3572

Ceraeochrysa cincta
biology, defence 1762
Eugenia, habitats, Florida 1762
prey, *Plotococcus eugeniae* 1762

Ceraeochrysa cubana
biology, behaviour 8354
Florida 8354
insecticides, toxicity 10461
predators 8354

Cerajocera tussilaginis
Arctium minus 6418
biology 6418

Cerambycidae
attractants 822
biology 3042
behaviour 4375
checklists, Taiwan 4395
China 5390
cocoa, Brazil 759
coniferous forests, Ontario 822
conifers, Ontario 8862

Cerambycidae cont.
distribution
Scandinavia 11264
Spain 11396
ecology 3042
distribution 5390
water relations 2330
food, man 1355
food plants 1193
New Mexico 1869
forest trees
Czechoslovakia 4012
Solomon Islands 838
USSR 3042
forests, German Federal Republic 1818
Hungary 2368
Ivory Coast 2486
Kenya 2330
Mexico 2372, 3409
monitoring, traps 822, 8862
morphology 5273
parasitoids 2486, 4012
physiology
carotenoids 3341
nutrition 5939
taxonomy 11264
USA 1193

Cerambycinae, morphology 5273

Ceramica pisi (see *Mamestra pisi*)

Ceranthia
Castanopsis chrysophylla, forests, Oregon 3998
hosts, *Phryganidia californica* 3998

Ceraphronoidea
evolution 4280
morphology 4280

Cerapteryx graminis
natural enemies 1520
Netherlands 3145
reports 1520
parasitoids 3145
woodlands, Netherlands 1520

Cerastium glomeratum, *Thrips palmi* 10510

Ceratina, morphology, wings 7316

Ceratiola ericoides, *Schistocerca ceratiola*, Florida 11381

Ceratitis
distribution 3753
fruits 3753

Ceratitis capitata
Africa 4428
apples 4423
attractants 2213, 4428, 7726, 9695, 9698, 9727, 11122
avocados, Hawaii 5746
biology 1021, 2383, 3951, 11364
behaviour 494, 766, 3382, 4364, 6834, 7897, 9698, 10722
environmental factors 6440, 11777
reproduction 5399
calamondins, Florida 578
Central America 9365
Citrus, Israel 8646
coffee 3951
Hawaii 766, 11777
control 578, 1021
heat treatment 11893
hot water treatment 11892
plant growth regulators 8646
sterile insect release 9365
trapping 9695, 9727
crops, Guatemala 6583
diets 10382
distribution, maps 6459
ecology, demography 4380
Florida 11122
food plants 494
fruits 10722
Costa Rica 4479
Egypt 9698
Hawaii 7897
New Zealand 7726
fumigants, toxicity 4802
genetics
chromosomes 6380
cytogenetics 7390
genes 7395
mutations 7386
phenotypes 7388
population genetics 11614

Ceratitidis capitata cont.

- genetics cont.
 - recombination 4350
 - sex differentiation 10207
- Greece 10722
- growth regulators
 - effects 7236
 - toxicity 11049
- Guatemala 4364
- Hawaii 3144, 3382, 4380, 4423
- insecticides, toxicity 11980
- kumquats 6848
 - Hawaii 6834
- mangoes
 - commodities 11892
 - Mauritius 9727
- metabolic inhibitors, effects 12009
- monitoring 9727
 - traps 3144, 4423, 7726, 9695, 9698
- morphology 8212
- parasitoids 4479, 4488, 6535, 10436
- pathogens 1921, 5105
- pawpaws, commodities 4802, 11049, 11893
- peaches
 - Argentina 11614
 - Brazil 9695
- physiology
 - chemical composition 1921
 - enzymes 2201, 3283
 - heat production 10269
 - sound production 5326
 - spermatozoa 2262
- plant extracts, attractants 564, 3144, 3211
- predators 6583
- quality controls 2390
- radiation, effects 3361
- rearing techniques 2383, 2390, 4426, 5399, 10382, 11404
- songs 4364
- USA 4428

Ceratitidis rosa

- attractants 9727
- control, trapping 9727
- fruits, Mauritius 9727
- monitoring 9727

Ceratochrysa antica

- cotton, fields 2909
- distribution, Tanzania 2909
- prey, *Aphis fabae* 2909

Ceratocystis fagacearum, vectors, Coleoptera 5064*Ceratocystis ips*

- Ips pini*, interactions 1774
- vectors, *Dendroctonus valens* 10945

Ceratocystis laricicola, vectors, *Ips cembrae* 5065*Ceratocystis minor*, vectors, *Dendroctonus brevicomis* 10945*Ceratocystis nigrocarpa*

- Ips pini*, interactions 1774
- vectors, *Dendroctonus brevicomis* 10945

Ceratocystis ulmi

- vectors
 - Scolytidae 5064, 7940
 - Scolytus* 4990, 7017

Ceratocystis wageneri, vectors, Coleoptera 10923*Ceratonis siliqua*, *Taphrocoetes ceratoniae* 2947*Ceratophyllum demersum*, *Parapoynx diminutalis* 8430*Ceratopogonidae*

- biology, behaviour 9299
- cocoa, plantations, Costa Rica 3946
- insect growth regulators, effects 2755
- monitoring, traps 3946
- North America 9299
- plant oils, attractants 3946
- prey, aquatic invertebrates 9299

Ceratostigma argentea

- hosts, Hymenoptera 2444
- Ricinus communis*, fields, Brazil 2444

Ceratostolen marchali

- Ficus hispida*, Pakistan 2754
- parasitoids 2754

Ceratosthripoides cameroni

- biology 1709
- Solanaceae, food preferences 1709

Ceratovacuna japonica

- bamboos, Japan 8442
- predators 8442

Ceratovacuna lanigera, parasitoids 1426*Ceratovacuna nekoashi*

- biology, behaviour 3022
- Japan 3022

Styrax japonica, galls 3022*Cerceris*, morphology, sense organs 6273*Cerceris antipodes*

- biology
 - behaviour 2482, 7404
 - defence 251
- Mutillidae, interactions 251
- New South Wales 251, 2482, 7404
- Cerchysius whittieri*, taxonomy, synonyms, of *Coccidoctonus dubius* 2124
- Cercidiphyllum japonicum*, *Schizotetranychus cercidiphylli*, Japan 9947
- Cercis*, *Enchenopa binotata* complex, USA 5957

Cercis canadensis, *Automeris zephyria*, New Mexico 10983*Cercocarpus betuloides*, *Automeris zephyria*, New Mexico 10983*Cerconota anonella*

- Annona* 9734
- Annona muricata*, Trinidad and Tobago 1596
- control 1596
- distribution, Venezuela 9734

Cercopidae

- Brachiaria*, resistance 2674
- Brazil 6525
- control, cultural control 6752
- Gramineae, Brazil 4679
- pastures, Brazil 6752
- predators 6525

Cereal grains

- arthropod pests, Africa 1011
- arthropods, Belgium 11033
- Coleoptera 4056, 5098
- Cryptolestes ferrugineus*
 - South Carolina 6037
 - UK 7103
- Cryptolestes pusillus* 11951
- habitats, mites 8988
- insect pests
 - control, controlled atmospheres 7101
 - damage 3051
 - detection 4080
 - losses 3056-3057
 - plant extracts, effects 5234
- insecticides, residues 10038, 11139
- insects, sampling 11040
- Lepinotus patruelis*, UK 8950
- mites 11036
 - UK 8942
- pest control 4070, 11035, 11037
- conferences 12034
- pesticides, residues 7082
- Sitophilus oryzae*, Australia 7978
- Sitophilus zeamais*, Hungary 7982

Cereals

- Acrididae
 - Sahel 7300
 - yield losses 2590
- Apamea anceps*, USSR 12011
- Aphididae 11530
 - Denmark 4616
 - German Democratic Republic 10579
 - India 3573, 9740
 - Latin America 5160
 - North America 1421
 - Spain 10542
 - Switzerland 3651
 - UK 8443
- arthropod pests
 - control
 - integrated control 901, 6699
 - pesticides 11115-11116
 - German Democratic Republic 7550
 - Italy 11637
 - Romania 4570
 - Sicily 11655
 - USSR 901
 - yield losses 2591
- Cylindrothorax* 1024
- Delia coarctata* 6457

Cereals cont.

- Deroceras reticulatum*
 - damage 357
 - UK 358
- Diuraphis noxia*
 - Canada 9543
 - Texas 2612
- Eurygaster integriceps*, Iran 3650
- fields
 - Aphidius rhopalosiphii*, New Zealand 2596
 - beneficial arthropods, USSR 901
- Carabidae
 - German Federal Republic 368
 - Sweden 366, 4623
- Formicidae, Spain 4613
- Hymenoptera, India 9740
- insects, German Federal Republic 2598
- invertebrates, UK 371
- parasitoids, Sahel 9521
- predatory arthropods, UK 3516, 8444
- predatory insects
 - Denmark 4616
 - Poland 8466
- Pterostichus*, Berlin 9444
- Rhopalocera, UK 9530
- insect pests 6634
 - control, insecticides 10553
 - economic thresholds 5582
 - France 10569
 - Italy 2556, 5582, 10220
 - natural enemies 589
 - Romania 4614
 - Sahel 9521
 - USSR 589
- insects, France 6700
- integrated pest management 9532
- Lepidoptera, USSR 1006
- Metopolophium dirhodum*
 - damage 5595
 - New Zealand 2596
- Mocis* 6459
- Orthoptera, Alberta 11994
- Oulema melanopus*, Denmark 6681
- pest control
 - Belgium 4236
 - Europe 5161
 - Florida 12018
 - German Federal Republic 7260, 8055, 8058, 8070
 - Romania 4571
 - USSR 8456
- pest resistance 10556
 - crop production 11120
- pests, UK, books 10190
- Rhopalocera, UK 8457
- Rhopalosiphum*, Queensland 1429
- Rhopalosiphum padi* 8471
 - Europe 5594
 - Finland 9486
 - resistance 1431
- Schizaphis graminum*, resistance 1977
- slugs
 - Pennsylvania 356
 - UK 370-371
- snails, Australia 369
- Spodoptera exempta*, yield losses 2589
- tropics, reports 5246
- yield losses, assessment 2591
- Ceriodaphnia lacustris*, insecticides, effects 6172
- Ceriops tagal*, *Strigoptera bimaculata*, Australia 4007
- Cermatulus nasalis*
 - lucerne, fields, South Australia 3744
 - parasitoids 3744
- Cernuella virgata*
 - biology 369
 - cereals, Australia 369
 - control 369
- Cerococcidae*
 - distribution, Pacific Islands 7273
 - taxonomy 7273
- Cerococcus cycliger*
 - biology 11523
 - Thymus*, Italy 11523
- Cerodontha incisa*, barley, German Democratic Republic 397

Cerodontha lateralis, barley, German Democratic Republic 397

Cerodontha pygmaea, barley, German Democratic Republic 397

Cerodontha superciliosa, barley, German Democratic Republic 397

Ceroplastes
coconuts, Nigeria 2700
natural enemies 3805

Ceroplastes actiniformis
control, insecticides 5766
mangoes, India 5766

Ceroplastes ceriferus
Citrus, Japan 2764
ecology, distribution 2764

Ceroplastes destructor
parasitoids 3574
South Africa 3574

Ceroplastes floridensis
biology, environmental factors 571
Citrus
Egypt 571
Israel 3811
cloves, India 10532
control, insecticides 571, 10532
ecology, population dynamics 3811
parasitoids 3811
predators 6622, 10723

Ceroplastes japonicus
biology 3968
natural enemies 3968
trees, China 3968

Ceroplastes rubens
Citrus, Japan 2764
ecology, distribution 2764

Ceroplastes rusci, ornamental plants, Egypt 776

Ceroplastodes
distribution, India 7685
Sesbania 7685

Ceropria induta
Auricularia auricula 11688
insecticides, toxicity 11688

Cerosterna scabrator
biology, behaviour 1782
Eucalyptus, India 1782

Cerotoma arcuata
beans 3878
biology, phenology 9788, 10796
ecology, distribution 9789
pathogens 3878, 10056
Phaseolus vulgaris, Venezuela 9788-9789
plant pathogens, transmission 10796
Vigna unguiculata, Brazil 10796

Cerotoma facialis maculata
plant pathogens, transmission 5815
soyabeans, Ecuador 5815

Cerotoma ruficornis
biology
environmental factors 4849
phenology 9788
sex ratio 4850
control, integrated control 634
ecology, distribution 9789
Leguminosae, Cuba 4849
Phaseolus vulgaris
Cuba 634, 4850
Venezuela 9788-9789
plant pathogens, transmission 11716
Vigna unguiculata, Trinidad and Tobago 11716

Cerotoma trifurcata
control 1639
Phaseolus vulgaris, Virginia 1639

Cestius phycitis
aubergines, India 2887
control, insecticides 2887

Cetonia aurata pisana
parasitoids 4516
Quercus, Italy 4516

Ceutorhynchinae, taxonomy 3246

Ceutorhynchus assimilis
rape
German Democratic Republic 10765
Poland 7777

Ceutorhynchus constrictus
Cruciferae 7774
phagostimulants 7774

Ceutorhynchus napi, rape, Poland 7777

Ceutorhynchus pallidactylus
biology 605, 8265
rape
German Democratic Republic 605
German Federal Republic 5784

Ceutorhynchus pleurostigma
control, insecticides 2803
rape, Poland 2803, 7777

Ceutorhynchus quadridens (see *C. pallidactylus*)

CGA-112913 (see Chlorfluazuron)

CGA-184699, toxicity, Tortricidae 5717

CGA-45128 (see N-Ethyl-O-[2-(4-phenoxyphenoxy)ethyl]carbamate)

Chad
Acrididae 7300
cotton, pest control 3735

Chaenomeles japonica, *Cydia dimorpha*, Japan 3802

Chaenomeles speciosa
Cydia dimorpha, Japan 3802
pollen, diets, *Neoseiulus fallacis* 4497

Chaetanaphothrips orchidii
distribution, maps 6459
food plants 6459

Chaetocnema
biology 3606
Bruguiera, Indonesia 7910
control, insecticides 7910
Solanum, South Africa 3606
sugarbeet, Czechoslovakia 8731

Chaetocnema confinis
control, insecticides 1698
sweet potatoes, Georgia 1698

Chaetocnema indica
control, insecticides 6748
sorghum, India 6748, 7667

Chaetocnema pulicaria
maize, New York 1450
plant pathogens, transmission 1450

Chaetogena filipalpis
biology, behaviour 3502
hosts, Psychidae 3502
Italy 3502

Chaetoptelius vestitus (see *Acrantus vestitus*)

Chaetorellia
Centaurea 2570
taxonomy 6639

Chaetorellia acrolophi
biology 6639, 8191
Centaurea, North America 8191
Compositae, Europe 6639
control, *Centaurea*, evaluation 8191
morphology 6639
taxonomy, new species 6639

Chaetorellia australis
biology, behaviour 10508
Centaurea 10508
Centaurea solstitialis
evaluation 329
Greece 329
control
Centaurea solstitialis, evaluation 329
Centaurea 6630
pheromones 10508
taxonomy, from *Chaetorellia hexachaeta australis* 6639
USA 6630

Chaetorellia conjuncta, taxonomy, differentiation, *Chaetorellia succinea* 6639

Chaetorellia hexachaeta (see *C. australis*)

Chaetorellia hexachaeta australis, taxonomy, to *Chaetorellia australis* 6639

Chaetorellia succinea, taxonomy, *Chaetorellia conjuncta*, differentiation 6639

Chaetosiphon fragaefolii
biology, environmental factors 1546
plant viruses, transmission 1546
strawberries, German Federal Republic 1546

Chaitaphis savavii
Kochia cana, Iran 10663
taxonomy, new species 10663

Chaitophoridae, physiology, enzymes 1060

Chaitophorus kapuri
morphs 2966
natural enemies 2966
Populus ciliata, India 2966

Chalcididae 2558
biology 8051
China 5028
forests
Czechoslovakia 2097
India 10980
hosts
arthropod pests 8051
Cynipidae 11473
Pteroma plagiophleps 10980
Thysanogyna limbata 5028
Rosa canina, galls 2558
Spain 11473
yams, commodities, habitats, India 7089

Chalcidoidea
Arizona 10440
checklists, America 4511
distribution, New Zealand 6464
evolution 4280
habitats, Poland 5068
hosts
Asphondylia boerhaaviae 1386
Megachile rotundata 3555
Pissodes nitidus 10939
Jamaica 1386
morphology 4280, 6255
Pinus koraiensis, forests, China 10939
predators 10440
taxonomy 6464

Chalcogran
attractants, *Pityogenes chalcographus* 8835
synergism 8835
with methyl (2*E*,4*Z*)-2,4-decadienoate, attractants, *Pityogenes chalcographus* 5979

Chalcoprax (see *Chalcogran*, with methyl (2*E*,4*Z*)-2,4-decadienoate)

Chalybion bengalense
biology 10457
behaviour 7514
India 7514, 10457
parasitoids 10457
prey, Araneae 7514, 10457

Chamaecyparis lawsoniana, *Orsillus depressus*, Europe 1878

Chamaedorea
Brevipalpus ortizi, Costa Rica 802
Tenuipalpus chamaedoreae, Costa Rica 4594

Chamaedorea elegans, *Retracrus johnstoni*, damage 8550

Chamaedorea exorrhiza, *Microtylopteryx hebari*, Costa Rica 3756

Chamaemyiidae
biology 2514
distribution, USSR 2514
fire, effects 7670
forests, India 8917
grasslands, Utah 7670
monitoring, traps 7670
prey, Homoptera 2514

Chamaesphacia, *Euphorbia esula*, China 4582

Chamomile (see *Chamomilla recutita*)

Chamomilla recutita
insect pests, natural enemies, effects 4873
insecticides, residues 1407
Metatydæolus longistriatus, Egypt 2788
Scutacarus, Egypt 2577

Chamomilla suaveolens, extracts, effects, *Peridroma saucia* 333

Channa orientalis, insecticides, effects 6193

Channa punctatus
insecticides
effects 2030, 6196, 8095, 10127
toxicity 8120

Charaxes jasius
genetics, chromosome number 1131
Italy 1131, 9335

Charitopes chrysopae, *Tilia cordata*, Poland 2440

Charitopes clausus, *Tilia cordata*, Poland 2440

Charops
hosts, Lepidoptera 1744
jute, fields, Pakistan 1744

- Chartolepis**, *Chaetorellia acrolophi*, Europe 6639
- Chauliognathus marginatus**
food plants, Maryland 4091
pathogens 4091
- Chauliognathus pennsylvanicus**
food plants, Pennsylvania 4091
pathogens 4091
- Chauliops**
biology 2832
soyabeans, India 2832
- Chauliops fallax**
control, cultural control 1657
sampling 1657
soyabeans, Nepal 1657
- Cheeses**, pesticides, residues 7082
- Cheilomenes sexmaculata**
apples, orchards, India 1561
aubergines, fields, India 3504
biology, development 5498
cotton, fields, India 1733
Cuminum cyminum, fields, India 10529, 11524
fields, India 6889, 7643
India 7031
Indian mustard, fields, India 8685
insecticides
effects 6889
toxicity 9037
potatoes, fields, India 1687
predators 3504
prey
Aphididae 1687, 9037
Aphis craccivora 6889
Aphis gossypii 5498
Aphis pomi 1561
Earias vittella 1733
field crops, insect pests 7643
Heteropsylla cubana 7031
Lipaphis erysimi 8685
Myzus persicae 10529, 11524
- Cheiloneurus**
Citrus, orchards, Cuba 9712
hosts, Hemiptera 9712
- Cheiloneurus pyrrillae**
biology 5589
environmental factors 5592
hosts, *Pyrilla perpusilla* 5589
India 5592
rearing techniques 5592
sugarcane, plantations, India 5589
- Cheilosisia albitarsis**
ecology, population dynamics 6563
food plants 6563
UK 6563
- Cheiracanthium**
prey, *Oligonychus indicus* 4675
sorghum, India 4675
- Cheiracanthium inclusum**
prey, *Peucetia viridans* 8363
South Carolina 8363
- Cheiranthus cheiri**, pollen, Formicidae, germination 9924
- Chelariinae**
morphology 3225
taxonomy 3225
- Cheletogenes ornatus**
biology 5749
Citrus
orchards
Brazil 5749
Egypt 572
insecticides, effects 5749
prey
Citrus, arthropod pests 572
Pinnaspis aspidistrae 5749
- Cheletomimus berlesei**
coniferous forests, France 2958
prey, Tenuipalpidae 2958
- Chelidurella acanthopygia**, physiology, cardiovascular system 4316
- Chelone glabra**, *Euphydryas phaeton*, Massachusetts 9916
- Chelonus**
hosts
Lepidoptera 1508
Spodoptera frugiperda 8476
Trichoplusia ni 1319, 7502
maize, fields, Brazil 8476
physiology
development 1319
- Chelonus cont.**
physiology cont.
venoms 7502
sorghum, fields, South Africa 1508
- Chelonus blackburni**
control, *Earias vittella* 6972
cotton, fields, India 6972
hosts
Helicoverpa armigera 1280
Lepidoptera 244
India 244
insecticides, toxicity 1280, 8390
- Chelonus curvimaculatus**
hosts
Lepidoptera 1508
Trichoplusia ni 1319, 7502
physiology
development 1319
venoms 7502
sorghum, fields, South Africa 1508
- Chelonus insularis**
hosts, *Spodoptera frugiperda* 4634
maize, fields, Honduras 4634
- Chelostoma**, collections 9140
- Chemicals**, nontarget effects, books 12029
- Chemistry**
pest control, conferences 6235
plant protection 10183
books 10182
- Chemosterilants**, effects, Aphididae, symbionts 4844
- Chenopodiaceae**, *Cynthia cardui* 323
- Chenopodium**, *Lixus juncii* 6458
- Chenopodium album**
Agrotis ipsilon, India 9828
Agrotis segetum 5554
arthropods, North Carolina 2601
Dichroplus elongatus 2403
extracts, toxicity, Coleoptera 3148
Helicoverpa armigera 9920
India 9820
Papaipema nebris 9549
Pemphigus fuscicornis, USSR 4871
- Chenopodium ambrosioides**
extracts
synergism 3148
toxicity, Coleoptera 3147-3148
- Chenopodium quinoa**, insect pests, Bolivia 9606
- Chermes tsugae**
biology 5945
ecology, dispersal 7071
forest trees, Connecticut 5945
Tsuga canadensis, Connecticut 7071
- Cherries** (*Prunus avium*)
Achelura bifasciata, damage 3775
Archips, USSR 6822
arthropod pests 9111
Italy 11635-11637
bibliographies 9111
Coccoidea, Europe 2695
Maladera matrida, damage 2691
Myzus cerasi 2126
Europe 9694
Papilio glaucus × *P. pilumnus* 4003
Phyllonorycter, Italy 3776
Rhagoletis, Colorado 4731
Rhagoletis cerasi, Europe 3801
Rhagoletis pomonella, Utah 4733, 8626
Tortricidae, USSR 6821
- Chestnuts** (*Castanea sativa*)
Acari, Italy 11632
Dryocosmus kuriphilus, Japan 9936
extracts, effects, *Cydia splendana* 6798
habitats, parasitoids, Japan 9936
- Chetostoma completum**
food plants, India 2692
parasitoids 2692
- Cheyletidae**
biology 575
books 12017
distribution 12017
Philippines 7080
ecology 12017
grapefruits, orchards, Cuba 575
groundnuts, fields, Egypt 662
morphology 12017
prey
arthropod pests 662
mites 575
- Cheyletidae cont.**
taxonomy 12017
USSR 12017
woody plants, habitats 10469
- Cheyletus**, cereal grains, UK 8942
- Cheyletus eruditus**
grain stores, Manitoba 1902, 11876
insecticides, effects 11876
prey, *Lepinotus reticulatus* 1902
- Cheyletus malaccensis**
acaricides, effects 1291
biology 1291
prey, *Caloglyphus* 1291
- Chiastocheta**
Trollius, Finland 6665
Trollius europaeus, pollination 6665
- Chickens**, eggs, acaricides, residues 3441
- Chickpeas** (see *Cicer arietinum*)
- Chicory** (*Cichorium intybus*)
arthropod pests
control 4816
Italy 4816
- Chilades peripatria**
Cycas taiwaniana, Taiwan 2936
taxonomy, new species 2936
- Chile**
Aphididae, parasitoids 6109
arthropod pests, books 5231
arthropods 4400
biological control 5160
Blacinae 10232
Bruchus pisorum, parasitoids 2463
Cleridae 4258
coastal plant communities, arthropods 4596
Copitarsia consueta, parasitoids 4512
Cryptophlebia 1038
Cryptostigmata 2337
Cydia molesta, parasitoids 4767
Dichroplus elongatus 2403
Dolichoderinae 10424
entomology, history 4401
Entomophthorales, hosts 8985
Formicidae 5425
kiwifruits, pest control 4769
Masaridae 4402
Megachile rotundata, parasitoids 5690
Neoseiulus chilensis 9646
Noctuidae 8663
Nothofagus pumilio, forests, arthropods 5029
Panonychus ulmi 4732
Phoebis sennae 2578
Pinus radiata, insect pests 1797
Pseudopachymerina spinipes 798
Quadraspidiotus perniciosus 7728
Rhagoletis conversa 4882
Rhopalocera 2357
Rhyacionia buoliana 10932-10933
Saissetia 4780
Schizaphis graminum 367
Silviella 2146
Sphecidae 1340
Systole albipennis 4876
Tachinidae 2346
Tetranychus urticae 4716
Therioaphis trifolii 5689
- Chilepyris platyhelys**
biology 1335
hosts, *Hadrobregmus magnus* 1335
taxonomy, new species 1335
- Chillies** (see *Capsicum*)
- Chilling**
control
Corcyra cephalonica 11041
stored products pests 7104
- Chilo**
parasitoids 3533
pathogens 4116-4117, 4125
rice, Bhutan 7646
- Chilo agamemnon**, rice, Egypt 1470
- Chilo auricilius**
biology, environmental factors 5585
control, biological control 9528
parasitoids 334, 2592, 6561, 6685, 8452
pathogens 3094, 5647
rice 5647
sugarcane, India 334, 2592, 5585, 8452, 9528

Chilo infuscatellus

- China 4562
- control
 - biological control 9528
 - insecticides 6696
- insecticides, pathogenicity 9005
- morphology 6690
- natural enemies 4483
- parasitoids 6561
- pathogens 3094, 4562
- sugarcane 6690
 - China 6696
 - India 9528

Chilo luteellus, distribution, Bulgaria 155***Chilo orichalcociliellus***

- pathogens 6745
- sorghum
 - Africa 3717
 - Kenya 6745

Chilo partellus

- biology
 - behaviour 9603
 - development 6698
 - diapause 1508, 7665
 - flight 130
 - phenology 6712, 9604
- cereals 6698
 - Kenya 1430, 6712
- Coix lacryma-jobi*, India 334
- control 11587
 - biological control 8520
 - insecticides 3721, 7663, 8519, 9573
- diets 5466, 6492, 6496
- distribution, maps 6460
- food plants 6460
- India 3719
- insecticides, toxicity 5615
- maize 5615
 - India 411, 11587
 - resistance 8500, 9575
 - South Africa 9573
- marking 6492
- natural enemies 1508, 6712
- parasitoids 334, 1430, 2663, 5466, 5479, 6561, 8383, 11461
- pathogens 3094, 4158, 6745
- physiology
 - membranes 2204
 - muscles 81
 - proteins 7377
- rearing techniques 6496, 11413
- sorghum
 - Africa 3717
 - India 456, 458, 2663, 2666, 3721, 5677, 6746, 7663, 7665, 8519-8520, 8522, 9604, 11583, 11588
 - Kenya 6745, 9603
 - resistance, reviews 3719
 - South Africa 1508
 - varietal susceptibility 1497
 - Yemen Arab Republic 7658

Chilo sacchariphagus

- control, biological control 364
- sampling 364
- sugarcane, Mauritius 364, 11278

Chilo sacchariphagus indicus, pathogens 3094***Chilo sacchariphagus sacchariphagus***

- China 8037
- control, insecticides 6696
- pathogens 8037
- physiology, endocrine system 1081
- sugarcane, China 6696

Chilo suppressalis

- biology
 - behaviour 5649
 - environmental factors 9592
- China 3533
- control 6729
 - biological control 7703
 - cultural control 434
 - insecticides 5639, 8503, 11559
- cultural methods, effects 3694
- diets 5649
- ecology, population dynamics 11559
- insecticides
 - effects 5649
 - metabolism 10111-10112
 - resistance 10111-10112
 - toxicity 6481

***Chilo suppressalis* cont.**

- monitoring, traps 9592, 11559
- parasitoids 3533
- pathogens 4121
- physiology, enzymes 10111
- rice
 - China 424, 1489, 5639, 6729, 7703, 8503, 9592, 11559
 - Iran 434, 3694
 - Japan 7638
 - resistance 7622, 9601

Chilo venosatus (see *C. sacchariphagus sacchariphagus*)***Chilocorus***

- India 8652
- prey, *Metacaronema japonica* 8652

Chilocorus bijugus

- apples, orchards, India 6810
- control, *Quadraspidiotus perniciosus* 6810
- fungicides, effects 9682
- India 11433
- prey, *Quadraspidiotus perniciosus* 11433

Chilocorus bipustulatus

- biology, phenology 1589
- olives, orchards, Cyprus 1589
- prey
 - Saissetia coffeae* 3805
 - Saissetia oleae* 1589

Chilocorus cacti

- Cajanus cajan*, fields, Puerto Rico 3886
- ectoparasites 4470
- Hemisarcophytes*, phoresy 11430
- Mexico 4470
- physiology, enzymes 11430
- prey, *Empoasca* 3886

Chilocorus distigma

- control, *Aonidiella aurantii* 3815
- South Africa 3815

Chilocorus kuwanae

- biology, reproduction 6832
- China 3968, 4494, 5936
- Citrus*, orchards, China 7749
- control
 - Quadraspidiotus perniciosus* 11433
 - Unaspis yanonensis* 6832
- ecology, population dynamics 9951
- hosts, *Quadraspidiotus perniciosus* 6015
- parasitoids 6015, 6832
- prey
 - Aulacaspis rosae* 4494
 - Ceroplastes japonicus* 3968
 - Hemiberlesia pitysochila* 9951
 - Parlatoria zizyphi* 7749
 - Physokermes jezoensis* 5936

Chilocorus nigrata

- Citrus maxima*, orchards, India 11664
- control
 - Aonidiella aurantii* 3815, 11664
 - Melanaspis glomerata* 7584
- distribution 267
- ecology, environmental effects 267
- Hemisarcophytes*, phoresy 11430
- physiology, enzymes 11430
- prey, *Aonidiella aurantii* 2442
- South Africa 2442, 3815
- sugarcane, plantations, India 7584

Chilocorus rubidus

- China 5936
- prey, *Physokermes jezoensis* 5936

Chilocorus stigma

- ectoparasites 4470
- USA 4470

Chilopoda

- biology, phenology 3977
- Canada 3247
- cereals, fields, UK 371
- Florida 3977
- forests, Poland 7049
- molluscicides, effects 371
- monitoring, traps 3977
- prey, Nematoda 10639
- soil, Colorado 10639
- taxonomy, keys 3247

China

- Acaphylla theae* 4961
- Acrididae 3685
- Adelphocoris suturalis* 738

China cont.

- Adosomus*, natural enemies 3627
- Adoxophyes orana*, parasitoids 2731, 4740
- Agromyza cinerascens* 2603
- Agrotis ipsilon*, pathogens 7862
- Aleyrodidae 5389
- Allothrombium pulvinum*, prey 1342
- Amblyseius nicholsti*, hosts 5905
- Ambrosia artemisiifolia*, natural enemies 4578, 4583
- Andraca bipunctata*, natural enemies 4958
- Aphididae
 - parasitoids 749
 - pathogens 5771
- Aphis gossypii* 1727
- predators 5874
- Aphis umbrellae* 1181
- Apis mellifera*, ectoparasites 4533
- apples, orchards, predatory arthropods 8593
- Apriona germari*, parasitoids 9397
- Araneae 8510
- Arcofacies maculatipennis* 2585
- Argiopinae 3535
- arthropod pests, natural enemies 11382
- Aulacaspis rosae*, natural enemies 4494
- Bacillus thuringiensis* 5117
- bamboos
 - Hemiptera, predators 8414
 - Lygaeidae 8440
- Bleptina* 6861
- Bombyx mori*, pathogens 9478
- Bradysia odoriphaga* 1706
- Brassica*, Lepidoptera, parasitoids 4819
- Brumoides lineatus* 1290
- Buzura suppressaria* 2895
- Campoletis chloridae*, hosts 8776
- Cecidomyiidae 3653
- Cerambycidae 5390, 9678
- Ceroplastes japonicus*, natural enemies 3968
- Chilo suppressalis* 6729
- parasitoids 3533
- Chromatomyia horticola* 1982
- Chrysopa pallens*, prey 7523
- Citrus*, mites 6830
- Cnaphalocrocis medinalis* 1490, 3690, 6391, 10614
 - parasitoids 1167
 - pathogens 10073
- Coccinellidae 2732, 4498
- Coccoidea, parasitoids 9517
- Coleophora dahurica*, predators 7510
- Coleophoridae 6258
- cotton, Lepidoptera, parasitoids 3126
- Crataegus laevigata*, arthropod pests 1856
- Cychnus* 5257
- Cydia funebrana* 5740
- Cydia molesta* 5729
- Cyrtotrachelus longimanus* 9518
- Dasmithius* 7314
- Delphacidae 9515, 11374
 - parasitoids 3513, 4513
- Dendrolimus punctatus* 9420
 - parasitoids 824, 7019
 - predators 4023, 6110
- Dendrolimus tabulaeformis*, parasitoids 1334
- Dialeurodes citri* 3103
- Diaphania indica*, parasitoids 5782
- Dioryctria* 5990
- Diprionidae 9954
- Dorylus orientalis* 9737
- drugs, insect pests, natural enemies 10042
- Dryocosmus kuriphilus*, parasitoids 7937
- Echinocnemus squameus* 9579
- Ectropis obliqua* 8798
- entomogenous fungi, pathogens 11083
- Entomoscelis orientalis* 11507
- Epilachna vigintioctomaculata* 5845
- Ericerus pela* 789, 7402
- Eriophyidae 1829, 5947-5948
- Euphorbia esula*, natural enemies 4582
- Euplectrus bicolor* 3534
- Fiorinia* 3238
- forest trees, pest control 1870

China cont.

- forests, insects 11002
Gastrophysa atrocyanea 2564
Gonioctena 9941
Helicoverpa armigera 1732, 2907, 4914, 7872
 predators 3932
Hemiberlesia pitysophila 3978
 parasitoids 6114
Hishimonus sellatus 11657
Histia rhodope, pathogens 8435
 hives, insect pests 8331, 9472
Holotrichia, pathogens 4858
Hypera 3993
Hypocala subsatura 342
 insect pests, forecasting 6135
Ischnafiorinia bambusicola 3642
Isoptera 9462
 books 10175, 10177
Leguminivora glycinivorella 4164
Lepidoptera 4662
 natural enemies 4805
 pathogens 4562
Leucoptera susinella, parasitoids 5982
Lipaphis erysimi 5179, 8679
Lucanidae 3235
Lysiphlebus testaceipes, hosts 4921
Macrosteles purpurata 1605
Macrotermes barneyi 9457
Malacosoma neustria 5165
Metabolus flavescens 2973
Metacoronema japonica, pathogens 7951
Monochamus urussowii 3969
Mythimna loreyi 3654
Mythimna separata 2321, 5687
 pathogens 3655
Neodiprion guangxiicus 2974
Neodontocnemis formosana 661
Nikkoaspis simaensis 3643
Nilaparvata lugens 10620
 natural enemies 3163, 3697
 predators 4663, 10629
Niphona furcata 1420
Noctuidae 5383
Nosema, hosts 8037
Odontotermes 6597
Odontotermes fontanellus 1346
Odontotermes hainanensis 1352
Omiodes indicata, natural enemies 1659
 ornamental plants, arthropod pests 10892
Ostrinia 10590
Ostrinia furnacalis 3673
Oulema oryzae, parasitoids 6551
Paederus fuscipes 5656
 prey 3693, 8509
Panonychus citri 5905
 predators 11662
Pantana sinica 9516
Papilio xuthus 8035
Parlatoria zizyphi, natural enemies 7749
Parnara guttata 5651
Pectinophora gossypiella 3926, 3930
Pentalonia nigronervosa 5761
 pest control 352, 10205
 entomophilic nematodes 11111
 information 5148
Phyllocnistis wampella 6825
Phyllonorycter populifoliella 3992
Physokermes jezoensis 5936
 predators 5936
Phytoseiidae 1885
Pissodes nitidus, parasitoids 10939
Plutella xylostella 3844, 9767
Pylalidae 424, 5639, 11559
Pyrausta phoenicealis 9509
Reticulitermes speratus 5503
Ricania sublimbata, predators 1577
 rice
 fields, beneficial insects 5640
 Hemiptera, predators 11556
 insect pests 8503, 9592
 natural enemies 4665
 predators 4660, 7703
 pest control 6728
Pylalidae 1489
 research, conferences 11267
Scarabaeidae 4869

China cont.

- Scarabaeoidea* 1873
Scirpophaga incertulas 3396, 3686
 predators 2648
Semiothisa cinerearia, parasitoids 9422
Sinokele mirabilis 5961
Sitobion avenae 5183, 10562
Sogatella furcifera 1466
 soil
Bacillus thuringiensis 6057
 invertebrates 5048
Sphecia sinensis 8834
Stenomelissa 1032
 stored products, insect pests 10019
Sucra jujuba 1569
 sugarcane
 insect pests 6696
 parasitoids 2457
Syllepte derogata 1740
Syrphidae 10229
Tarsonemus wangi 10759
Tessarotoma papillosa, pathogens 3101
Tetranychidae 2752
 predators 4957, 7735
Tetranychus cinnabarinus 9866
Thysanogyna limbata, natural enemies 5028
Tortricidae, parasitoids 535
 trees, insects 5989
Typhlocybinae 5388
 vegetables, insect pests 4809
 wheat, insect pests 4627
Chinaberry (see *Melia azedarach*)
Chinese cabbages (*Brassica chinensis* and *B. pekinensis*)
Agrotis ipsilon, Taiwan 1604
Aphididae
 China 749
 Taiwan 2797
Delia radicum 1598
 Belgium 9770
Dorylus orientalis, China 9737
 fields, *Aphidius picipes*, China 749
 insecticides, residues 9770
Lipaphis erysimi, China 8679
Myzus persicae 8266
Noctuidae 2010
 pest control, Asia, reports 2119
Plutella xylostella 5783
 Malaysia 11059
 varietal susceptibility 5780
 slugs, UK 612
Chinese jujube (see *Ziziphus sativa*)
Chinomethionat (6-methyl-1,3-dithiolo[4,5-b]quinoxalin-2-one)
 control, *Trialeurodes vaporariorum* 1710
 effects, *Amblyseius victoriensis* 8632
 penetration, *Rhizoglyphus echinopus* 4895
Chionaspidina
 North America 3248
 taxonomy 3248
Chionaspis
 morphology 3262
 North America 3248, 3262
 taxonomy 3248, 3262
Chionaspis alnus, USSR 6015
Chionaspis pinifoliae
 biology, environmental factors 7962
Pinus sylvestris, Iowa 7962
Chionaspis salicis
 biology 2696
 control, insecticides 2696
 trees, USSR 2696
 USSR 6015
Chioneosoma peetzi, *Salsola richteri*, USSR 4398
Chiromazine, effects, *Thrips palmi* 9728
Chironomidae
 insect growth regulators, effects 2755
 insecticides, effects 11190
Phragmites australis, Japan 1418
 predators 4672, 10612
 rice
 California 4672
 Thailand 10612
 timbers, Oregon 11045
Chironomus kiiensis
 biology, phenology 452
 monitoring, traps 452

Chironomus kiiensis cont.

- rice, Japan 452
Chiroptera
 pesticides, toxicity 8122
 prey
 analysis 7426
 availability, assessment 7425
Dendrolimus pini 8851
 insects 7425-7426
Chirotrips manicatus
 ecology, population dynamics 11533
 triticate, Poland 11533
Chitwoodiella, hosts, *Gryllotalpa africana* 6062
Chlaenius panagaeoides
 biology, behaviour 3506
 prey, *Aphis craccivora* 3506
Chlamisus mimosae
 Australia 8428
 control, *Mimosa pigra* 8428
Mimosa pigra, Brazil 8428
 taxonomy, new species 8428
 Thailand 8428
Chlamydomonas reinhardtii, insecticides, effects 11187
Chloramphenicol, control, *Serratia liquefaciens* 1963
Chloranil, toxicity, stored products pests 6018
Chlordane (1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-4,7-methano-1H-indene)
 control
Holotrichia serrata 359
Isoptera 8394
Macrotermes natalensis 5041
Odontotermes obesus 10665
Psammotermes hybostoma 3068
 determination 10147
 effects, guineapigs 2021
 formulations, microencapsulation 10108
 nontarget effects
 aquatic organisms 2039
Coptotermes formosanus 10480
 pollutants, marine areas 4213
 residues
 cereal grains 10038
 fishes 6137, 10124
 human milk 2018
 man 3183
 snow 8140
 vertebrates 11224
 water 6206
 toxicity
Coptotermes formosanus 9458, 10108
Leucopholis coneophora 5697
Oryctes rhinoceros 497
 rats 7215
Chlordecone (1,1a,3,3a,4,5,5a,5b,6-decachlorooctahydro-1,3,4-metheno-2H-cyclobuta[cd]pentalen-2-one)
 effects, rats 11186
 synergism 8027
 toxicity
Cosmopolites sordidus 8027
 rats 971
Chlordimeform (N'-(4-chloro-2-methylphenyl)-N,N-dimethylmethanimidamide)
 control
 cotton, insect pests 5887
Noctuidae 6981
Oxya chinensis 3685
Pylalidae 11559
Varroa jacobsoni 1245, 1326
 effects
 rats 4189
Tetranychus urticae 4184
Trichogramma japonicum 2655
 mixtures
 effects, *Glabromicroplitis croceipes* 4916
 nontarget effects, *Orius minutus* 8593
 toxicity, *Heliothis virescens* 2916, 2921, 11976
 penetration, *Rhizoglyphus echinopus* 4895
 synergism 2921, 3155, 11978

Chlordimeform *cont.*
toxicity
 Empoasca fabae 4697
 Heliothis virescens 11978
Chlorella, invertebrates, symbiosis 11379
Chlorella vulgaris, insecticides, toxicity 12003
Chlorfenson (4-chlorophenyl 4-chlorobenzenesulfonate)
residues, *Citrus*, commodities 10045
Chlorfenvinphos (2-chloro-1-(2,4-dichlorophenyl)ethenyl diethyl phosphate)
control
 Delia radicum 603, 3892, 9770
 Leptinotarsa decemlineata 2874
 Meligethes aeneus 4822
 potatoes, arthropod pests 1683
 Psila rosae 4870, 8735
 Quadraspidiotus perniciosus 9681
degradation, soil 603
effects, wheat 1434, 5598
mixtures, control, insect pests 5167
nontarget effects, predatory insects 4822
residues
 Brassica 9770
 soil 11138
 tea 770
toxicity
 Epilachna ocellata 2872
 Epilachna vigintioctopunctata 5846
Chlorfluazuron (*N*-[[[3,5-dichloro-4-[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]oxy]phenyl]-amino]carbonyl]-2,6-difluorobenzamide)
control, *Spodoptera exigua* 594, 3913
deposition, forest trees 10907
effects
 Drosophila melanogaster 2012
 Liriomyza trifolii 3175
 Thrips palmi 9728
 Tribolium castaneum 3063
formulations, sprays 10907
mutagenicity, *Drosophila melanogaster* 2013
synergism 3155
toxicity
 Choristoneura occidentalis 9103
 Chrysopa pallens 5492
 Helicoverpa armigera 2007
 Osmia cornifrons 7733
 Spodoptera littoralis 11209
Chlormephos (S-(chloromethyl) *O,O*-diethyl phosphorodithioate)
photolysis 11150
Chlorobenzilate (ethyl 4-chloro- α -(4-chlorophenyl)- α -hydroxybenzeneacetate)
control
 Tetranychus 2835
 Tropilaelaps clareae 7517
effects, *Tetranychus urticae* 4184
mixtures, control, *Phyllocoptruta oleivora* 9720
Chlorocytus
physiology, enzymes 6570
taxonomy 6570
2-Chloro-3-(2-fluoro-ethylamino)pyridine, toxicity, *Aphis gossypii* 6156
Chlorogenic acid
effects, nuclear polyhedrosis viruses 8758
mixtures, attractants, *Papilio protenor* 7750
2-(2-Chloro-1-methoxy-ethoxy)phenyl *N*-methylcarbamate, metabolism, *Derceras reticulatum* 7544
[1S-(1 α ,2 β ,3,4 α ,5 α ,6E)]-5-Chloro-6-[[[(methylamino)carbonyl]oxy]imino]bicyclo[2.2.1]heptane-2-carbonitrile, control, *Polyphagotarsonemus latus* 689
***N*-(4-Chloro-2-methylphenyl)-*N'*-methylmethanimidamide**, effects, *Tetranychus urticae* 4184
(4-Chlorophenyl)amino heptadecafluorooctyl sulfone, toxicity, *Solenopsis invicta* 4449
(1,4-Chlorophenyl)-2-methyl-3-[4-(phenylmethoxy)phenyl]-2-propene-1-one, effects, *Corcyra cephalonica* 11176
1-(4-Chlorophenyl)-3-[4-(phenylmethoxy)phenyl]-2-methyl-2-propene-1-one, effects, *Corcyra cephalonica* 4171
***O*-[4-[(4-Chlorophenyl)thio]phenyl] *O*-ethyl S-propyl phosphorothioate**
mixtures, toxicity, Lepidoptera 10855
toxicity, Lepidoptera 10855
Chlorophos (*see* Trichlorfon)
Chloropicrin, toxicity, stored products pests 845
Chloropidae
alkaloids, attractants 3212
conifers, Morocco 5984
control, insecticides 394
ecology 9613
 ecosystems 2341
 grasslands, German Democratic Republic 9613
 Ivory Coast 2486
 Kenya 3212
 parasitoids 2486, 11466
 USSR 2341, 11466
 wheat, USSR 394
Chlorops
alkaloids, attractants 3212
Kenya 3212
Chlorops pumilionis
biology 10570
cereals, Switzerland 10570
control 10570
Chloropulvinaria aurantii
Citrus, Japan 6833
ecology, distribution 11665
mandarins, Japan 11665
natural enemies 11665
Chloropulvinaria polygonata
control, insecticides 11678
mangoes, India 11678
Chlorotettix meriscus
Carex, Ohio 465
taxonomy, new species 465
Chlorothalonil, mixtures, nontarget effects, wheat, arthropods 2038
Chlorphenamidine (*see* Chlordimeform)
Chlorpyrifos (*O,O*-diethyl *O*-(3,5,6-trichloro-2-pyridinyl) phosphorothioate)
compatibility, fertilizers 11181
contamination, clothing 8132
control
 Agrilus ruficollis 3761
 Agrotis 7609
 Agrotis ipsilon 9828
 Agrypnus variabilis 8658
 Amsacta albitriga 2846
 Aproaerema modicella 6906
 Atherigona approximata 5632
 Bactrocera tryoni 7757
 Bemisia tabaci 7879
 Blissus leucopterus 7613
 Bradysia tritici 599
 Bruchophagus fellsii 7755
 Bruchus pisorum 2824
 cabbages, insect pests 4823
 Cavelerius sweeti 4606, 4610
 Chrysobothris femorata 11000
 Coleoptera 1698
 Cydia pomonella 546
 Delia radicum 603, 1617
 Diaspididae 488
 Diatraea 8515
 Dolichotetranychus floridanus 8657
 Elasmopalpus lignosellus 9816
 Elateridae 7826
 Euwallacea fornicatus 9903
 groundnuts, diseases 10809
 Helicoverpa armigera 5832
 Hishimonus sellatus 10739
 Hypera postica 476
 kiwifruits, insect pests 4769
 Lepidoptera 10857
 Lygus 2680
 Myochrous armatus 4861
 Mythimna venalba 11566
 Nala lividipes 10597
 Oides scutellata 8574
 Orseolia oryzae 10610
Chlorpyrifos *cont.*
control *cont.*
 Oscinella 6758, 7679
 Ostrinia furnacalis 2635
 Ostrinia nubilalis 2631, 4641, 10591
 Papaipema nebris 8489
 Parlatoria zizyphi 7749
 Pectinophora gossypiella 1730
 Pemphigus populitransversus 4826
 Phyllocoptruta oleivora 6839
 Psammotermes hybostoma 3068
 Psylliodes plana 3900
 Quadraspidiotus ostreaeformis 5719
 Quadraspidiotus perniciosus 9681
 Resseliella theobaldi 3762
 Reticulitermes flavipes 8576
 Rhopalosiphum maidis 3664
 Rhyzopertha dominica 11032
 rice, insect pests 7649
 Saperda populnea 10909
 Scarabaeidae 9626
 Schizaphis graminum 2665
 Scolytidae 7940
 Spodoptera frugiperda 8497
 Spodoptera litura 8788
 Syllepte derogata 755
 tomatoes, insect pests 1714, 3917
 Tortricidae 536
 Trifolium perenne, insect pests 1511
 Wiseana 6755
degradation, soil 7225, 9097, 11222
deposition 8489
detection 7826
effects
 Amblyseius benjamini 8657
 birds 7213
 cotton 10856, 10858
 insects 10095
 Macrophomina phaseolina 2036
 parasitoids 2846
 soil, microorganisms 9068
 Tipulidae 8537
filtration 1993
formulations 8081, 10849
 emulsifiable concentrates 11181
measurement 5216
metabolism, rats 2025
mixtures
 control
 Agrotis ipsilon 9828
 Atherigona approximata 5632
 Diatraea 8515
 Lepidoptera 10857
 Ostrinia nubilalis 2631
 Phyllocoptruta oleivora 9720
 Quadraspidiotus ostreaeformis 5719
 nontarget effects, *Eutetranychus banksi* 9720
nontarget effects
 algae 11401
 Apis mellifera 7540
 aquatic organisms 2039
 Coptotermes formosanus 10480
 determination 7227
 man 959, 3184, 9081, 11188
 Platyaster oryzae 10610
 Pterostichus 9444
 Trioxys pallidus 11634
penetration, *Pinus* 1793
residues
 apples, commodities 10045
 aquatic communities 6201
 determination 7224, 11984
 fog 10149
 groundwater 6204, 11984
 kiwifruits 4769
 lucerne 479
 tea 770
 water 7224
resistance
 Aphytis melinus 2762
 Liriomyza trifolii 5911, 7003, 9055
 Spodoptera littoralis 3935
sorption, soil 2004
synergism 2036
toxicity
 Achaea janata 1721

Chlorpyrifos *cont.*
toxicity *cont.*

- Anomis sabulifera* 7190
 - Anthurium andraeanum* 780
 - Coptotermes formosanus* 9458
 - Cryptolaemus montrouzieri* 7757
 - Cyrtorhinus lividipennis* 11464
 - Epilachna vigintioctopunctata* 5846
 - fishes 8123
 - man 2029
 - Platynota idaeusalis* 6813
 - Rhynchophorus cruentatus* 9911
 - Scirpophaga incertulas* 432
 - Scolytus multistriatus* 5051
 - Spodoptera frugiperda* 404
 - Spodoptera litura* 3164, 9590
 - Tribolium castaneum* 4059
 - Zeiraphera canadensis* 8853
 - with cypermethrin, control, *Conopomorpha cramerella* 8792
 - with diflubenzuron, resistance, *Spodoptera littoralis* 2905
 - with dimethoate, control, *Quadraspidiotus perniciosus* 11652
- Chlorpyrifos-ethyl** (see Chlorpyrifos)
- Chlorpyrifos-methyl** (*O,O*-dimethyl *O*-(3,5,6-trichloro-2-pyridinyl)phosphorothioate)
- control
 - Adoxophyes orana* 10712
 - mites 11876
 - mixtures, toxicity, maize, commodities, insect pests 11030
 - molecular conformation 11157
 - nontarget effects, predatory mites 11876
 - residues
 - cereal grains 7105
 - stored products 10184
 - wheat, commodities 8949
 - resistance, Coleoptera 7108
 - toxicity
 - goats 2048
 - maize, commodities, insect pests 11030
 - Sitophilus oryzae* 5093
 - stored products pests 5092, 6046, 8949
 - Tribolium castaneum* 5091, 7975
- Chlortoluron**, effects, Rhopalocera 8457
- Chlosyne**
- predators 3556
 - sunflowers, Texas 3556
- Chocolate**, *Lathridius anthracinus* 4050
- Cholesterol**
- effects
 - Bactrocera cucurbitae* 2237
 - Helicoverpa armigera* 79
 - phagostimulants, *Achaea janata* 7411
- Cholinesterase**, horses, insecticides, inhibitors 3193
- Chondrilla juncea**
- biological control 1383, 10517
 - California 1383
- Chorebus**, distribution, Spain 11469
- Choristoneura**
- ecology, population dynamics 7029
 - North America 7029
 - pheromones 10274
- Choristoneura conflictana**
- diets 3027
 - forest trees, Canada 7063
 - plant extracts, effects 3027
 - Populus tremuloides*, interactions 3027
- Choristoneura diversana**
- control, insecticides 1768
 - Quercus*, USSR 1768
- Choristoneura fumiferana**
- Abies balsamea* 3037, 9964, 9992
 - Maine 1790
 - Michigan 8854
 - Minnesota 4001
 - New Brunswick 7144
 - biochemistry 3106
 - enzymes 8225
 - biology 7041
 - behaviour 6416, 9992
 - migration 7284
 - phenology 5993
 - models 8836
 - British Columbia 8993

Choristoneura fumiferana *cont.*

- cell cultures 11411
 - cell lines
 - insect viruses 4116
 - insecticides, toxicity 8017
 - organic compounds, effects 6490
 - cells, effects, *Bacillus thuringiensis*, toxins 11947
 - conifers, New Brunswick 7075
 - control
 - insecticides 7914, 7939, 7941
 - microbial pesticides 5050
 - damage, determination 7925
 - diets 5025, 7041
 - ecology
 - population density 8865
 - population dynamics 7029, 8845
 - forest trees 7041, 8836
 - Canada 7063, 8865
 - Maine 7025-7026, 8905, 9949
 - New Brunswick 1771, 7914
 - Ontario 7939
 - Quebec 7054
 - fungi, extracts, toxicity 7075
 - Fusarium sporotrichioides*, toxins, effects 8993
 - growth regulators, effects 7234
 - insecticides
 - pathogenicity 3037, 9964
 - toxicity 1937
 - monitoring, traps 8605
 - North America 7029
 - parasitoids 7054, 7939, 8840, 9416
 - pathogens 3106, 4014, 5025, 5134, 7073, 7144, 8042, 8993, 10068
 - pheromones 8225
 - physiology
 - enzymes 2196
 - nutrition 5025
- Picea**
- Quebec 8840
 - USA 8845
 - Picea glauca*, Ontario 5050
 - Picea mariana*, Ontario 5993, 7941
 - Picea rubens*, Maine 7925
 - predators 7025-7026, 8845, 8905, 9949
 - Saissetia coffeae*, honeydew, effects 4001
- Choristoneura murinana**
- Abies alba* 11842
 - conifers, France 10991
 - distribution, France 11842
 - monitoring, traps 10991, 11842
- Choristoneura occidentalis**
- Abies balsamea* 3037, 10970
 - biology 1773
 - ecology, population dynamics 7029
 - forest trees
 - Arizona 1773
 - British Columbia 8884-8885
 - Idaho 7926
 - Montana 1791, 4027
 - Washington 1772
 - growth regulators, toxicity 9103
 - Idaho 6004
 - insecticides
 - pathogenicity 3037, 8863
 - toxicity 3002, 11979
 - North America 7029
 - pheromones 8884-8885
 - physiology, nutrition 10970
 - Picea engelmannii*, Utah 3036
 - Pseudotsuga menziesii* 3002
 - British Columbia 8863
- Choristoneura orae**
- biochemistry, enzymes 8225
 - pheromones 8225
- Choristoneura parallela**, *Hypericum*, USA 3613
- Choristoneura pinus**
- biology, development, models 10006
 - ecology, population dynamics 7029
 - forest trees, Canada 7063
 - insecticides, pathogenicity 3037
 - North America 7029
- Choristoneura pinus pinus**, *Pinus banksiana*, Ontario 10006
- Choristoneura rosaceana**
- apples
 - North America 8605
 - Nova Scotia 10701

Choristoneura rosaceana *cont.*

- biology, phenology 8840
 - control, insecticides 10701
 - monitoring, traps 8840
 - parasitoids 8840
 - physiology, enzymes 2196
 - trees, Quebec 8840
- Chorizococcus bardus**
- Narcissus capensis*, commodities, South Africa 7085
 - taxonomy, from *Maconellicoccus* 7085
- Chorizococcus lachenaliae**
- Lachenalia*, commodities, South Africa 7085
 - taxonomy, new species 7085
- Chorthippus**
- fertilizers, effects 7247
 - Hungary 7247
 - pathogens 1216
 - Yemen Arab Republic 1216
- Chorthippus biguttulus**
- morphology 5281
 - physiology
 - nervous system 8246
 - senses 3317
- Chorthippus biguttulus meridionalis**
- ecology 11414
 - taxonomy 11414
 - USSR 11414
- Chorthippus brunneus**, biology, environmental factors 6507
- Chorthippus curtippennis**
- California 11527
 - Montana 6504
 - pathogens 6504
 - physiology, sense organs 11527
- Chorthippus jucundus**
- genetics
 - chiasmata 10320
 - cytogenetics 1134
 - nucleolus organizer 7393
 - Spain 1134
- Chorthippus mollis**, morphology 5281
- Chorthippus parallelus**
- ecology, population dynamics 10210
 - genetics, chiasmata 10320
- Chorthippus parallelus erythropus**
- biology, behaviour 7407
 - France 6510
 - genetics 3734, 6510
 - meadows, Europe 3734
 - taxonomy 3734
- Chorthippus parallelus parallelus**
- biology, behaviour 7407
 - France 6510
 - genetics 3734, 6510
 - meadows, Europe 3734
 - taxonomy 3734
- Chorthippus vagans**, genetics, chiasmata 10320
- Chortoicetes terminifera**
- Australia 7420, 7473
 - biology
 - environmental factors 7420
 - reproduction, mapping 6505
 - control 7473
 - forecasting 7473
 - New South Wales 6505
- Christmas Island**, aquatic insects, catalogues 12031
- Chromaphis hirsutustibis**
- India 2967
 - morphology 2967
- Chromaphis juglandicola**
- control, biological control 6801
 - walnuts, California 6801
- Chromatomyia fuscata**, barley, Norway 5610
- Chromatomyia horticola**
- biology 9864
 - China 1982
 - control 2825
 - distribution, maps 6456
 - food plants 6456
 - Hungary 9864
 - India 6871
 - forecasting 1982
 - greenhouse crops, Italy 11779
 - morphology 9864
 - natural enemies 11779
 - parasitoids 9864

- Chromatomyia horticola** *cont.*
peas, India 2825
vegetables, India 7789
- Chromatomyia syngenesiae**
chrysanthemums, Italy 11779
distribution, maps 6456
food plants 6456
natural enemies 11779
- Chromoderus affinis**
beetroots, USSR 5835
control 5835
- Chromoderus fasciatus** (see *C. affinis*)
- Chromolaena odorata** (see *Eupatorium odoratum*)
- Chromolaena odoratum** (see *Eupatorium odoratum*)
- Chrotogonus homalodemus**, detergents, effects 5420
- Chrotogonus lugubris** (see *C. homalodemus*)
- Chrotogonus trachypterus**
control, insecticides 2827
Vigna unguiculata, India 2827
- Chrysanthemic acids**, synthesis 1991
- Chrysanthemin**, effects, *Anthonomus grandis* 8772
- Chrysanthemoides incana**, *Comostolopsis germana*, South Africa 6641
- Chrysanthemoides monilifera**
Australia 6641
biological control agents, evaluation 6641
Comostolopsis germana, South Africa 6641
- Chrysanthemoides monilifera monilifera**, *Comostolopsis germana* 6641
- Chrysanthemoides monilifera rotundata**, *Comostolopsis germana* 6641
- Chrysanthemum**
Chromatomyia syngenesiae 6456
Macrosiphoniella sanborni, Israel 1760
- Chrysanthemum cinerariaefolium** (see *Tanacetum cinerariifolium*)
- Chrysanthemum cinerariifolium** (see *Tanacetum cinerariifolium*)
- Chrysanthemum coronarium**, *Helicoverpa armigera* 9920
- Chrysanthemum morifolium** (see *Dendranthema morifolium*)
- Chrysanthemum sinense**, Aphididae, China 749
- Chrysanthemums**
Agromyzidae, Israel 11783
Aphididae, German Democratic Republic 775
Aphis gossypii 4967, 5910, 10083, 10891
Japan 7761, 9741
Chromatomyia syngenesiae, Italy 11779
Frankliniella occidentalis
Belgium 7007
damage 9921
South Africa 2940
habitats, *Diglyphus begini* 7900
insect pests, Norway 8811
insecticides, residues 2945
Liriomyza trifolii 4971, 5911, 7893, 7900
California 7003
resistance 1751
USA 4966, 8813
Ostrinia nubilalis, varietal susceptibility 4970
pest control 771
models 5862
Spodoptera exigua, resistance 1980
Tetranychus urticae 6120
Thrips tabaci 6121
- Chrysididae**
distribution, Sweden 6453
Spain 4467
- Chrysis**
hosts, *Chalybion bengalense* 10457
India 10457
- Chrysobothris femorata**
Acer rubrum, Kentucky 11000
biology, development 11000
control, insecticides 11000
- Chrysobothris subsimilis**, *Acacia peuce*, Australia 4007
- Chrysoscharis**
Citrus, orchards, Japan 1581
greenhouses, Italy 11779
hosts
Chromatomyia syngenesiae 11779
Phyllocnistis citrella 1581
Phyllonorycter populifoliella 4991
Tenthredinidae 4041
Salix, forests, Europe 4041
- Chrysoscharis oscinidia**
greenhouses, Netherlands 4536
hosts, *Liriomyza* 4536
- Chrysocoris purpureus**
Croton sparsiflorus, India 2207
physiology, chemical composition 2207
- Chrysocoris stollii**, growth regulators, effects 989
- Chrysodeixis**
control, insecticides 1714
tomatoes, Puerto Rico 1714
- Chrysodeixis acuta**
biology 2832
control, insecticides 9808
soyabeans, India 2832, 9808
- Chrysodeixis chalcites**, physiology, pheromones 1088, 2220
- Chrysodeixis eriosoma**
biology, environmental factors 10773
cabbages, India 10773
parasitoids 10773
- Chrysodeixis includens**
biology 222
behaviour 5823, 6413
control, insecticides 1666
Heterodera glycines, interactions 1661
identification 6893
insecticides
effects 5824, 10802
metabolism 11160
resistance 10801
models 1666
morphology, eggs 6893
natural enemies 9807, 10802
parasitoids 222, 4857, 10444
pathogens 891, 4094, 9805
physiology
enzymes 11160
nutrition 11728
reproductive organs 11300
stress factors 11302
predators 11429
soyabeans 1666, 5823-5824
Arkansas 9805
damage 1658, 1661, 1667, 2842, 11728
Florida 6893, 7801
Louisiana 9807, 10801
resistance 8714
South Carolina 4857, 10802
varietal susceptibility 8715
- Chrysomela knabi**
biology, development 8842
diet, effects 8842
Salix humilis, Virginia 8842
- Chrysomela populi**
control 5966
Populus, Italy 5966
- Chrysomela vigintipunctata**
biology 1848
Salix, German Federal Republic 1848
- Chrysomelidae**
cocoa, Brazil 759
collections 6249
control
integrated control 9532
microbial pesticides 5164
physical control 10769
distribution
France 2348
Italy 9334
Poland 6465
evolution 6866
forests, Poland 7048
Hungary 2368
India 6267
insecticides, toxicity 11114
maize, resistance, genetic engineering 11114
morphology, reproductive organs 7324
Phaseolus vulgaris, Cuba 10791
physiology, defence 6300
- Chrysomelidae** *cont.*
plant extracts, attractants 6866
plant pathogens, transmission 8006
predators 3556, 8509, 10460
rice, China 8509
soyabeans, Sudan 7167
taxonomy 6267
Texas 3556
vegetables, Connecticut 10769
wheat
Netherlands 9532
USSR 10556
- Chrysomelinae**, predators 1341
- Chrysomphalus aonidum**
Citrus
Cuba 9712
South Africa 3812
control, biological control 3812
distribution, maps 6458
food plants 6458
lemons, Cuba 9724
parasitoids 9446, 9712, 9724
- Chrysomphalus dictyospermi**
Citrus, Italy 11661
ornamental plants, Egypt 776
parasitoids 11661
- Chrysonotomyia formosa**
greenhouses, Italy 11779
hosts, Agromyzidae 11779
- Chrysopa**
apples, orchards, Brazil 2733
avocados, orchards, Queensland 7743
biology, phenology 3656
Cicer arietinum, fields, India 2851
control
Hemiberlesia lataniae 7743
Panonychus ulmi 2733
food plants, Brazil 8335
India 8392
lentils, fields, USA 5805
oranges, orchards, Brazil 9715
parasitoids 8335
prey
Acyrtosiphon pisum 5805
Aphis craccivora 2851
Epiricania melanoleuca 8392
Icerya purchasi 5942
Selenaspidus articulatus 9715
sampling 5805
South Australia 5942
wheat, fields, Brazil 3656
- Chrysopa carnea** (see *Chrysoperla carnea*)
- Chrysopa chi**, parasitoids 2471
- Chrysopa cubana** (see *Ceraeochrysa cubana*)
- Chrysopa dasyphlebia**, distribution, India 1338
- Chrysopa formosa**, Italy 3500
- Chrysopa himalayana**, distribution, India 1338
- Chrysopa lacciperda**
biology, development 8389
prey, insect pests 8389
- Chrysopa murrensis**, distribution, India 1338
- Chrysopa oculata**
biology, development 11445
parasitoids 2471
prey, *Rhopalosiphum maidis* 11445
- Chrysopa pallens**
biology 7523
China 7523
growth regulators, toxicity 5492
Japan 5492
parasitoids 7523
prey
Aphididae 5492
arthropod pests 7523
Thysanogyna limbata 5028
- Chrysopa perla**, biology, development 2477
- Chrysopa quadripunctata**, parasitoids 2471
- Chrysopa scelerates** (see *Brinckochrysa scelerates*)
- Chrysopa septempunctata** (see *C. pallens*)
- Chrysopa shansiensis**
China 1577
prey, *Ricania sublimbata* 1577
- Chrysopa sinica** (see *Chrysoperla sinica*)
- Chrysoperla**
cotton, fields 2909
distribution, Tanzania 2909

Chrysoperla *cont.*

- prey, *Aphis fabae* 2909
- Chrysoperla carnea**
 - apples, orchards, Ontario 2509, 9690
 - biology, development 5473, 11445
 - cereals, fields, Poland 8466
 - control
 - Aphis pomi* 9690
 - cotton, insect pests 4469
 - cotton, fields, USSR 274
 - diets 5457, 5473
 - Indian mustard, fields, India 8685
 - insecticides
 - effects 274
 - resistance 2509
 - Italy 3500
 - Libya 1545
 - olives, orchards, Cyprus 1589
 - parasitoids 274, 2471
 - pathogens 4138
 - physiology, digestion 3553
 - potatoes, fields, Egypt 7817
 - prey
 - Aphididae 1433, 8466
 - Aphis gossypii* 4915
 - dates, insect pests 1545
 - Ephestia kuehniella* 5473
 - Lepidoptera 11445
 - Lipaphis erysimi* 8685
 - Ostrinia nubilalis* 3547
 - Saissetia oleae* 1589
 - Schizaphis graminum* 9540
 - Protozoa, effects 3547
 - rearing techniques 4469, 5457, 5473, 6119, 11460
 - Solenopsis invicta*, interactions 4915
 - USSR 4469
 - wheat
 - fields
 - German Federal Republic 1433
 - Romania 9540
- Chrysoperla comanche**
 - biology, development 2490
 - songs 3529
- Chrysoperla externa**, insecticides, toxicity 8336
- Chrysoperla harrisii**, parasitoids 2471
- Chrysoperla perla** (see *Chrysopa perla*)
- Chrysoperla rufilabris**
 - parasitoids 2471
 - pecans, orchards, Georgia 6802
 - predators 6802
 - songs 3529
- Chrysoperla sinica**
 - apples, orchards, China 8593
 - cover crops, effects 8593
 - ecology, population dynamics 8593
 - heat resistance 1279
- Chrysophtharta bimaculata**
 - ecology, mortality 10965
 - Eucalyptus regnans*, Tasmania 10965
 - predators 10965
- Chrysophtharta hectica**
 - biology 7935
 - Eucalyptus*, New South Wales 7935
- Chrysophyllum cainito**, *Apate monachus*, Cuba 1580
- Chrysopidae**
 - biology 1304
 - behaviour 9313
 - phenology 9631
 - cereals, fields, Poland 8466
 - distribution, Saudi Arabia 230
 - insecticides, effects 3662
 - Iran 148
 - Italy 3500
 - Japan 1863
 - lucerne, fields, Italy 9631
 - morphology, spermatozoa 2162
 - pesticides, effects 681, 3765
 - prey
 - Aphididae 683, 1433, 3662, 8466, 8468, 9631
 - Drepanothrips reuteri* 11624
 - Heteropsylla cubana* 7031
 - Toxoptera odinae* 1863
 - sugarbeet, fields, German Federal Republic 681, 683
 - vineyards
 - Austria 3765
 - Switzerland 11624

Chrysopidae *cont.*

- wheat, fields, German Federal Republic 1433, 3662, 8468
- Chrysopidia garhwalensis**, distribution, India 1338
- Chrysoteuchia topiaria**
 - biology, behaviour 9658
 - food plants, British Columbia 9658
 - monitoring 9658
 - pheromones 8529
 - Poa*, Oregon 8529
- Chrysothamnus nauseosus**, extracts, effects, *Peridroma saucia* 333
- Chusquea, Silviella**, Chile 2146
- Chwastox M**, nontarget effects, Aphididae 4628
- Chyliza**, taxonomy 8196
- Chymomyza amoena**
 - apples, USA 3786
 - biology 10711
 - reproduction 3786
 - fruits, USA 10711
- Cibolacris parviceps**
 - California 11527
 - physiology, sense organs 11527
- Cicadella viridis**, parasitoids 6582
- Cicadellidae**
 - Arizona 10440
 - aubergines, India 5865
 - bibliographies 10171
 - biology 9733, 10171
 - Calluna*, habitats, UK 6470
 - control 486
 - insecticides 1683, 5865, 9733
 - integrated control 1556
 - cotton, resistance 7854
 - ecology 6470
 - Europe 8549
 - fire, effects 7670
 - food plants 1556
 - fruits 486
 - grasslands
 - UK 9611
 - Utah 7670
 - groundnuts, India 667
 - host plants, Argentina 6764
 - mangoes 9733
 - monitoring, traps 6764, 6890, 7670
 - natural enemies 9733
 - Ohio 465
 - parasitoids 9438, 11450
 - plant pathogens
 - analysis 874
 - transmission 1556, 1932, 3785, 5703, 10372, 11062, 11899, 11901-11902
 - plant viruses, transmission, reviews 3109
 - potatoes, Egypt 1683
 - predators 8777, 10440, 11556
 - Pseudotsuga menziesii*, Oregon 1776
 - Quercus*, Austria 4043
 - rice
 - China 11556
 - resistance, reviews 6725
 - soyabeans, Argentina 6890
 - staining 2382
 - taxonomy 10171
- Cicadidae**
 - food, man 1355
 - morphology 6274
 - physiology, sound production 9234
- Cicadina**
 - control, insecticides 5606
 - wheat, Romania 5606
- Cicadinea**, physiology, enzymes 1060
- Cicadoidea**
 - biogeography 10239
 - Oceania, books 10239
 - taxonomy 10239
- Cicadula persimilis**
 - ecology, population dynamics 9545, 9611
 - grasslands, UK 9545, 9611
- Cicadulina**, maize, resistance 8500
- Cicadulina arachidis**, grasses, Nigeria 10636
- Cicadulina chinai**
 - cereals, Egypt 10552
 - plant pathogens, transmission 10552

Cicadulina mbila

- control, insecticides 417, 9573
- distribution, maps 6455
- food plants 6455
- grasses, Nigeria 10636
- maize 1449
 - Reunion 3666
 - South Africa 417, 9573
- plant pathogens, transmission 1449, 3666
 - rearing techniques 3666
- Cicadulina similis**, grasses, Nigeria 10636
- Cicadulina storeyi**, grasses, Nigeria 10636
- Cicadulina triangula** (see *C. storeyi*)
- Cicer arietinum**
 - Aphididae 8724
 - Aphis craccivora*, India 672
 - commodities
 - Bruchidae 8969
 - India 7997
 - Callosobruchus* 7998
 - Callosobruchus chinensis* 8932
 - damage 854
 - varietal susceptibility 7970
 - Callosobruchus maculatus* 11877
 - India 10047
 - resistance 6050
 - Helicoverpa armigera* 7120
 - insects, Bangladesh 10025
 - Tribolium castaneum* 11057
- fields
 - beneficial arthropods, India 2851
 - Campoletis chloridae*, India 670, 9820
 - parasitoids, India 9818
 - Helicoverpa armigera* 596, 2848, 2854, 3890, 4811, 9004, 9920
 - damage 5832
 - India 670, 2852, 3891, 5834, 7810, 7813, 8726-8727, 9818, 9820-9821, 10812
 - outbreaks 7812
 - resistance 1674, 10215
 - varietal susceptibility 2850, 9819, 11735
- insect pests
 - Bangladesh 1675
 - books 3868
 - control 5833
 - cultural control 669
 - India 669, 2851, 2853, 5833
 - natural enemies 2851
 - varietal susceptibility 1673
- insecticides
 - effects 1672
 - residues 671, 11712, 11736
- intercropping, peas, pest control 643
- Lepidoptera, Australia 7861
- Noctuidae, Israel 2783
- Ophiomyia centrosematis* 2833
- pest resistance, catalogues 10202
- Tenebrionidae, Queensland 7811
- Termitidae, India 8725
- Trichogramma* 5478
- tropics, reports 8154
- Cichorium intybus** (see *Chicory*)
- Cicindela**
 - ecology 9622
 - habitats, Arizona 9622
- Cicindela haemorrhagica**
 - ecology 9622
 - habitats, Arizona 9622
- Cicindela marutha**
 - Arizona 3530
 - parasitoids 3530
- Cicindela obsoleta**
 - Arizona 3530
 - parasitoids 3530
- Cicindela pulchra**
 - Arizona 3530
 - parasitoids 3530
- Cicindela repanda**
 - Connecticut 3519
 - ecology, habitats 3519
 - Kansas 1313
 - physiology, senses 1313
- Cicindelidae**
 - biology 1005
 - control 1005
 - distribution
 - India 266

Cicindelidae *cont.*
distribution *cont.*
Mississippi 2362
ecology, defence 2315
evolution 2315
physiology, senses 86
Turkey 1005

Cidnopus pilosus, soil, Poland 2298

Cienfuegosia affinis, *Conotrachelus denieri*, Paraguay 8434

Cienfuegosia drumondii, *Conotrachelus denieri*, Paraguay 8434

Ciidae, fungi 4817

Ciliophora, insecticides, effects 2046

Cimberis decipiens
Pinus monticola, British Columbia 5261
taxonomy, new species 5261

Cimberis turbans
Pinus contorta, Oregon 5261
taxonomy, new species 5261

Cimbicidae
evolution 4280
morphology 4280

Cinara
Picea abies, Finland 5054
Picea engelmannii, Colorado 8285

Cinara atrotibialis
biology 10978
environmental factors 1844
parasitoids 10978
Pinus kesiya 1844
India 10978

Cinara cupressi
biology 1828
conifers, Africa 7044
Cupressus sempervirens, Jordan 1828
predators 1828

Cinara maculipes
morphology 8878
parasitoids 10981
Pinus wallichiana 8878
India 10981

Cinara maritimae
biology 1828
Camponotus sylvaticus, interactions 4452
parasitoids 7506
Pinus, Spain 4452
Pinus halepensis 1828

Cinara nigra
morphology 10962
Pinus contorta, North America 10962

Cinara pilicornis, parasitoids 7506

Cinara pinea, parasitoids 7506

Cinara pini, parasitoids 7506

Cinara pseudotaxifoliae, *Camponotus*, interactions 1865

Cinara schimitscheki, parasitoids 7506

Cinara tujaefilina
ecology, population dynamics 7930
Thuja orientalis, Japan 7930

Cineol, metabolism, *Paropsis atomaria* 5958

trans-Cinnamaldehyde
mixtures
attractants
Acalymma vittatum 7788
Diabrotica virgifera 10595

trans-Cinnamic acid, phagostimulants,
Carpophilus hemipterus 8498

Cinnamomum camphora, *Actias selene*, Taiwan 4002

Cinnamomum tamala, Acari, galls 10533

Cinnamomum verum (see *C. zeylanicum*)

Cinnamomum zeylanicum
Alcides morio, India 1406
insect pests, India 10979

Cinnamyl alcohol, attractants, *Diabrotica* 11543

Cioninae
Japan 4277
morphology 4277
taxonomy 3246

Cionus
Japan 4277
morphology 4277

Circulifer tenellus
Citrus 10585
plant pathogens, transmission 10585

Cirrospilus
biology 5982
coffee, plantations, Brazil 9893
forests, China 5982
hosts
Paraleucoptera sinuella 5982
Perileucoptera coffeella 9893

Cirrospilus vittatus
apples, orchards, German Democratic Republic 2740
greenhouses, Italy 11779
hosts
Agromyzidae 11779
Stigmella malella 2740
pesticides, effects 2740

Cirsium
*Agapanthia dahl*i, Hungary 4910
Paracantha gentilis, USA 11503
Uroleucon, German Federal Republic 1392

Cirsium arvense
Aphididae, German Federal Republic 3611
Aphis fabae, German Democratic Republic 3237
Cassida rubiginosa, USSR 11510
Cleonis pigra
Netherlands 1294
UK 4577
Ensinna sonchi, India 2692
habitats, *Eurytoma serratulae*, German Federal Republic 2566
natural enemies, Netherlands 1294
Pieris napi, UK 9530
Urophora cardui, galls 2566

Cirsium californicum, *Paracantha gentilis*, California 6647

Cirsium douglasii, *Eustenopus hirtus* 1379

Cirsium grayanum, *Epilachna niponica*, Japan 1385

Cirsium heterophyllum, *Tephritis conura*, German Federal Republic 10514

Cirsium nipponicum, *Epilachna niponica*, Japan 1385, 3622

Cirsium proteanum, *Paracantha gentilis*, California 6647

Cirsium vulgare
arthropods, New Zealand 7558
invertebrates, New South Wales 2572
Thrips nigropilosus, New Zealand 8420

Cismethrin ((1*R*-*cis*)-[5-(phenylmethyl)-3-furanyl]methyl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropane-carboxylate)
nontarget effects
evaluation 7303
reviews 7303
residues, foods 7303

Cissus modeccoides, *Aplosonyx orientalis*, Vietnam 5076

Cistus, *Di cladispa testacea*, Turkey 9493

Cistus laurifolius, *Hemineura bigoti*, Spain 8830

Citol (see Dimethoate, with mineral oils)

Citral, pheromones, mites 8945

Citrinin, toxicity, Noctuidae 4174

Citrullus lanatus (see Watermelons)

Citrullus vulgaris (see Watermelons)

Citrullus vulgaris var. *fistulosus*,
Aulacophora foveicollis, food preferences 1630

Citrus (see also English names of individual species and hybrids)
Aleurocanthus woglumi, Pakistan 2759
Aleurothrixus floccosus, Italy 2760
Aleyrodidae 3808
India 4782
Anoplophora malasiaca
damage 9709
Japan 9704
Aonidiella aurantii, South Africa 3815
Apate monachus, Cuba 1580
Aphididae 6829
USSR 215
Aphis
Egypt 553
Spain 8639
Aphis gossypii, Florida 5747
Aphis spiraeicola, Israel 7143

Citrus *cont.*
arthropod pests
biology 2766, 7748
control 2766, 8641
pesticides 11115-11116
Egypt 572
Florida 4166
Italy 2766, 8641, 11637
Japan 6833
natural enemies 8641
Sardinia 11620
Sicily 11655
Asia 3416
Bemisia tabaci, Turkey 1736
Ceroplastes floridensis, Israel 3811
Chrysomphalus aonidii 6458
South Africa 3812
Chrysomphalus dictyospermi, Italy 11661
Circulifer tenellus 10585
Coccus pseudomagnoliarum, California 2756
commodities
Anastrepha ludens 10046
Aonidiella aurantii 7117
Diaphorina citri 4785
pesticides, residues 10045
Cribrolecanium andersoni, South Africa 6827
Cryptophlebia leucotreta
Africa 3755
South Africa 3814, 5752
Curculionidae 4777
Cycloneda limbifer, Cuba 1579
Dialeurodes citri, Israel 7751, 11663
Diaphorina citri
India 1578
Philippines 9702
Taiwan 4784
Diaprepes abbreviatus, Caribbean 8645
Diploschema rotundicolle, Brazil 4776
extracts
effects, insects 7169
toxicity, *Aleurocanthus woglumi* 1759
Formicidae, Cuba 10880
habitats
Amblyseius aegyptocitri, Egypt 4270
Lemnia kaszabi, Papua New Guinea 10868
Neoseiulus chilensis, Chile 9646

Hemiptera
Israel 2763
Japan 2764
Reunion 7745

ICerya purchasi
California 2767
Italy 9016

insect pests
control 567
insecticides 568
Cuba 5548
damage 1582
Italy 2556
USSR 567

Lepidoptera
Italy 2765
Spain 1373

Maladera matrida, damage 2691
mites, China 6830
Mylocerus mayarami, India 2969
orchards
Acaropsellina sollers, Egypt 573
Amblyseius nicholsi, China 5905
Aphytis holoxanthus, South Africa 3812
Aphytis melinus, California 2762
Aphytis yanonensis, Japan 9703
beneficial arthropods
India 4782
Pakistan 2759
beneficial insects
China 7749
Queensland 7747
Cales noacki, Italy 2760
Cheletogenes ornatus, Brazil 5749
Coccidoxenoides peregrinus, India 10726
Coccinellidae, USSR 215

Citrus cont.

- orchards cont.
Comperiella lemniscata, Italy 11661
Cybocephalus gibbulus, Japan 6833
Encarsia, Israel 11663
Hymenoptera, Japan 1581
Oribatula, Egypt 10723
parasitoids
India 2761, 11660
Italy 2765
Japan 6832
predatory mites, Egypt 572
Pteromalus puparum, Pakistan 513
Rodolia cardinalis
California 2767
Italy 9016
soil arthropods, USSR 3813
Stethorus punctum, USSR 4783
Stethorus siphonulus, China 11662
Tetrastichus ceroplastae, Israel 3811
Trichogrammatoidea
cryptophlebiae, South Africa 5752
Panonychus citri
China 5905, 11662
USSR 4783
Pantomorus cervinus
California 10721
Florida 8644
Papilio, India 2761
Papilio demodocus 6457
Papilio demoleus, Pakistan 513
Parabemisia myricae, Turkey 2758
Parlatoria zizyphi, China 7749
pest control 1375, 1583
Australia 9132
Italy 6831, 7748
South Africa 568
Sudan 6625
Yemen Arab Republic 9701
Phyllocnistis citrella 6455
India 1575, 2757, 7752
Japan 1581
resistance 3809
Yemen Arab Republic 1576
Phyllocoptruta oleivora, Florida 2755
Phyllocoptruta paracitri, China 5948
Pinnaspis aspidistrae, Brazil 5749
Planococcus citri
India 10726
Queensland 7747
Polyphagotarsonemus latus, South Africa 7746
Pomacea, Philippines 454
Psorosticha zizyphi, India 11660
Rastrococcus invadens, Togo 6777
Ricania sublimbata, China 1577
Scirtothrips citri, California 5751, 8643
Scirtothrips dorsalis, Japan 9705
Tetranychidae, China 2752
Toxoptera aurantii
India 10727
resistance 3810
Trioza erytrae, South Africa 9711
Unaspis citri, Cuba 10724
Unaspis yanonensis 4778
Asia 6459
economic thresholds 9703
Japan 6832
Citrus aurantifolia (see Limes)
Citrus aurantium (see Sour oranges)
Citrus greening
vectors
Diaphorina citri 9702
Hemiptera 7745
Citrus jambhiri, *Psorosticha zizyphi*, India 2770-2771, 7753
Citrus latifolia, *Polyphagotarsonemus latus* 10725, 10734
Citrus limettoides, *Papilio demoleus* 3819
Citrus maxima
Aonidiella aurantii, India 11664
orchards, beneficial insects, India 11664
Phyllocnistis citrella, resistance 3809
Citrus medica, *Priscapalpus piarai*, India 6778
Citrus nakoor, *Phyllocnistis citrella*, resistance 3809
Citrus natsudaoidai
extracts, attractants, *Papilio protenor* 7750
Toxoptera citricidus 7754
Citrus nobilis, *Phyllocnistis citrella*, resistance 3809
Citrus paradisi (see Grapefruits)
Citrus reticulata (see Mandarins)
Citrus rugulosa, *Phyllocnistis citrella*, resistance 3809
Citrus sinensis (see Oranges)
Citrus tristeza closterovirus
vectors
Aphididae 6829
Aphis gossypii 5747
Hemiptera 1582, 11902
Toxoptera citricidus 6835
Citrus unshiu, extracts, attractants, *Papilio protenor* 7750
Citrus vein enation virus
vectors
Toxoptera aurantii 10727
Toxoptera citricidus 8005
Cladocera
insect growth regulators, effects 2755
insecticides, effects 6172, 7223
Cladosporium herbarum, insecticides, effects 11194
Clania variegata (see *Eumeta variegata*)
Clarias batrachus, insecticides, effects 6196
Clarkia elegans (see *C. unguiculata*)
Clarkia unguiculata, *Helicoverpa armigera*, damage 6997
Clausena lansium, *Phyllocnistis wampella*, China 6825
Clavigralla gibbosa
biology, behaviour 9810
Cajanus cajan, India 5816, 9810
insecticides, toxicity 9810
Clavigralla tomentoscillis
diets 652
rearing techniques 652
Vigna, resistance 6886
Vigna unguiculata 652
Nigeria 3879, 8703
Clavispora opuntiae, attractants, *Drosophila* 128
Clematis vitalba, *Xylocleptes bispinus*, German Federal Republic 1377
Clementines
Aphididae, Spain 9717
Ceratitis capitata 10722
orchards, *Rhyzobius forestieri*, France 4790
Saissetia oleae, France 4790
Cleobora mellyi
Eucalyptus regnans, forests, Tasmania 10965
prey, *Chrysophtharta bimaculata* 10965
Cleome viscosa
Acrosternum gramineum, India 5004
habitats, Hymenoptera, India 5004
Cleoninae
distribution, Iran 6477
food plants, Iran 6477
Japan 4277
morphology 4277
taxonomy 3246, 6477
Cleonis pigra
Cirsium arvense
Netherlands 1294
UK 4577
parasitoids 1294, 4577
UK 4577
Cleonis piger (see *Cleonis pigra*)
Clepsis, pheromones 10274
Cleridae
attractants 822
Chile 4258
coniferous forests, Ontario 822, 8862
monitoring, traps 822, 8862
prey
conifers, insect pests 5985
Pissodes 6000
taxonomy 4258
Clerodanes, synthesis 5223
Clerodendron infortunatum, *Drosicha mangiferae*, India 4801
Clerodendron trichotomum
extracts, attractants, *Athalia rosae* 2796
Tetranychus kanzawai, Japan 3748
Clerodendrum siphonanthus, extracts, antifeedants, *Sitophilus oryzae* 430
Clethrobium comes, distribution, India 2967
Clethrobium dryobius
India 2967
morphology 2967
Cletus, rice, Bhutan 7642
Cletus punctiger
biochemistry, lipids 2658
biology, behaviour 2658
food plants, Japan 2658
Cletus signatus
India 5494
natural enemies 5494
Cleyera japonica, Chrysomelidae, Japan 2953
Clidemia hirta
biological control 11508
Hawaii 11508
Climatic change, monitoring 5376
Clitemnestra
distribution, Chile 1340
taxonomy 1340
Clitocine, toxicity, *Pectinophora gossypiella* 8074
Clitocybe inversa, extracts, toxicity, *Pectinophora gossypiella* 8074
Clitoria ternatea, arthropod pests, bibliographies 2076
Clitostethus arcuatus, control, *Siphoninus phillyrae* 8914
Clocthrin (see Lambda-cyhalothrin)
Cloeon dipterum, Hungary 2369
Cloethocarb (2-(2-chloro-1-methoxyethoxy) phenyl methylcarbamate)
control
Diabrotica virgifera 9567
maize, insect pests 417
slugs 371
degradation, soil 9567
effects, *Deroceras reticulatum* 314
herbicides, interactions 9567
residues, soil 5213, 9062
toxicity
Somaticus 5627
Somaticus geniculatus 6716
with herbicides, control, *Diabrotica* 4647
Clofentezine (3,6-bis(2-chlorophenyl)-1,2,4,5-tetrazine)
control
Aculops lycopersici 6942
Brevipalpus phoenicis 3817
Dolichotetranychus floridanus 8657
Panonychus ulmi 11650
Tetranychus urticae 3931, 11787
effects, *Amblyseius victoriensis* 8632
mixtures, control, *Tetranychus urticae* 3931
resistance, *Tetranychus urticae* 6995
toxicity, *Panonychus ulmi* 2739
Clostera anastomosis
control 5966
insecticides, toxicity 7135
Populus, Italy 5966
Clostera cupreata, plant extracts, antifeedants 5919
Clostera pigra, Spain 1178
Closterocerus coffeellae
coffee, plantations, Brazil 9893
hosts, *Perileuoptera coffeella* 9893
Closterocerus insignis
hosts, *Tropicomyia theae* 3953
tea, plantations, India 3953
Clothing
insecticides
contamination 8132
penetration 6176
pesticides
contamination 6177
protection 961
removal 3204
Clover yellow vein potyvirus, vectors, *Aphis chloris* 3612
Clovers (see also *Trifolium*)

- Clovers** *cont.*
Agrotis crassa, USSR 11603
Hypera brunneipennis, Egypt 482
- Cloves** (*Syzygium aromaticum*)
Ceroplastes floridensis, India 10532
Sarawak, reports 7299
- Clubiona japonicola**
biology, behaviour 3691
prey, Delphacidae 3691
rice, fields, Korea Republic 3691
- Clydesmithia**, taxonomy, new genus 10947
- Clydesmithia canadensis**
Populus, Canada 10947
taxonomy, new species 10947
- Clysia ambiguella** (*see Eupoecilia ambiguella*)
- Cnaphalocrocis medinalis**
biology 3708-3709, 6391, 6730, 11575
reproduction 2645, 9747
China 1167, 6391, 7523, 8037, 10073
control 9587
cultural control 7648
insecticides 426, 7649
diets 176, 4667
ecology
environmental factors 1475
population dynamics 1167, 10614
eggs, collection 5405
fertilizers, effects 7648
food plants, food preferences 11580
forecasting 10614
Japan 9747
morphology, glands 27
natural enemies 10614
parasitoids 1167, 9421
pathogens 5647, 8037, 10073
Philippines 4667
physiology, nutrition 11580
predators 7523, 8509
rearing techniques 176
rice 426, 5405, 5647, 6730
China 1490, 3690, 8509, 10614
India 1475, 1477, 2645, 2657, 5660, 7633, 7648-7649, 11573
Japan 3708-3710, 9587
Malaysia 3663
resistance 1484, 3689, 4667, 7621, 9601, 11575
sampling 3690
- Cneorane**
biology 2832
control, insecticides 6898
groundnuts, India 6909
soyabeans, India 2832, 6898
- Cnephasia**, small fruits, Switzerland 5701
- Cnephasia conspersana**
biology 9333
distribution, Italy 9333
- Cnephasia jactatana**
biology, development 8211, 8222
evolution 8211
rearing techniques 4421
- Cnius benedictus**, *Pterolonche inspersa* 5558
- Coastal plant communities**, arthropods, Chile 4596
- Coca** (*see Erythroxylum coca*)
- Coccidae**
Auriculoscypa, interactions 10071
Citrus, Cuba 8642, 9714
distribution, Pacific Islands 7273
Ghana 11903
India 10071
parasitoids 6591, 9714
pathogens 11903
preservation 3452
taxonomy 7273
Tillandsia 4965
- Coccidiphaga scitula**
olives, orchards, Cyprus 1589
prey, *Saissetia oleae* 1589
- Coccidoctonus dubius**, taxonomy, synonyms, *Cerchysius whittieri* 2124
- Coccidothrix**, taxonomy 9151
- Coccidothrix zangherii**
Juniperus nana, Italy 9151
taxonomy, new species 9151
- Coccidophilus citricola**
insecticides, effects 9715
oranges, orchards, Brazil 9715
prey, *Selenaspidus articulatus* 9715
- Coccidoxenoides peregrinus**
biology, development 10726
Citrus, orchards, India 10726
hosts, *Planococcus citri* 10726
- Coccinea**
biology 1009
distribution 1009
Poland 6465
Europe, books 1009
identification 1009
physiology, enzymes 1060
- Coccinella**
Cuminum cyminum, fields, India 11524
ectoparasites 5455
Phragmites australis, USSR 5455
prey, *Myzus persicae* 11524
- Coccinella arcuata** (*see Harmonia octomaculata*)
- Coccinella axyridis** (*see Harmonia axyridis*)
- Coccinella quinquepunctata**
Libya 1545
prey, dates, insect pests 1545
- Coccinella repanda** (*see C. transversalis*)
- Coccinella septempunctata**
apples, orchards, India 1561
biology
behaviour 2479
overwintering 5472
phenology 4498
carrots, fields, Poland 10820
cereals, fields, Poland 8466
China 4498
Cicer arietinum, fields, India 2851
Cuminum cyminum, fields, India 10529, 11524
Czechoslovakia 5472
fertilizers, effects 7247
fields, Finland 10577
Finland 9486
German Federal Republic 1432
Greece 5485
Hungary 7247
India 11433
Indian mustard, fields, India 8685
insecticides
effects 1432, 3662
toxicity 2476
Libya 1545
maize, fields, Quebec 6714
morphology, fat body 10264
orchards, Iraq 5736
parasitoids 6530
pathogens 7140
physiology
environmental factors 5485, 7380
enzymes 6593
potatoes, fields, India 1687
prey
Acyrtosiphon pisum 2479
Aphididae 1432, 1687, 3662, 6714, 8466
Aphis craccivora 2851
Aphis fabae 1282
Aphis pomi 1561
dates, insect pests 1545
Dysaphis pyri 5736
Hypocala subsatura 342
Lipaphis erysimi 2476, 8685
Meligethes aeneus 9486
Myzus persicae 10529, 11524
Quadraspidiotus perniciosus 11433
Rhopalosiphum padi 10577
Uroleucon nigrotuberculatum 7535
Vicia faba, fields, German Federal Republic 1282
wheat, fields, German Federal Republic 3662
- Coccinella septempunctata brucki**
biology, behaviour 9632
Japan 1225
lucerne, fields, Japan 9632
prey
Aphis gossypii 1225
insects 9632
- Coccinella septempunctata confusa**
biology
behaviour 264
melanism 1309
India 1309
prey, Aphididae 264
- Coccinella transversalis**, prey, Aphididae 3503
- Coccinella undecimpunctata**
distribution, Australia 2
plums, orchards, India 4763
potatoes, fields, Egypt 7817
prey, *Hyalopterus pruni* 4763
- Coccinellidae**
apples
orchards
China 8593
India 1561
Netherlands 10709
Bermuda 10452
biology 1304, 7266
development 2518
phenology 4498, 9631
cassava, fields, Congo 2100
cereals, fields, Poland 8466
China 4498
Citrus, orchards, USSR 215
collections 6249
cover crops, effects 8593
deltamethrin, effects 4653
ecology, population dynamics 8593
Ethiopia 10554
fields, India 7643
forests
German Federal Republic 2997
Poland 7048
habitats, German Democratic Republic 10470
India 3754, 5496
insecticides, effects 2618
Japan 1863
lucerne, fields, Italy 9631
maize, fields, German Federal Republic 4653
parasitoids 276
peas, fields, USSR 649
pecans, orchards, Georgia 3774
pesticides, effects 681, 3765
plant pathogens, transmission 8006
potatoes, fields, USSR 3903
predators 3556
prey
Acyrtosiphon pisum 649
Aphididae 683, 1433, 2518, 2617, 3754, 3774, 4653, 5496, 8466, 8468, 9631, 10554
Aphis 3903
Aphis pomi 1561
Drepanothrips reuteri 11624
Epilachninae 630
field crops, insect pests 7643
Neodiprion sertifer 5006
Phenacoccus manihoti 2100
Polyphagotarsonemus latus 1713
Prodiplosis platani 1868
Schizaphis graminum 9540
Toxoptera odinae 1863
sodium pentachlorophenol, toxicity 2997
sugarbeet, fields, German Federal Republic 681, 683
Sweden 5006
taxonomy 2, 10452
keys 7266
Texas 3556
UK, books 7266
USSR 276
vineyards
Austria 3765
Switzerland 11624
wheat
fields
German Federal Republic 1433, 2617, 8468
Romania 9540
USSR 2618
- Coccinellimermis**, hosts, *Coccinella septempunctata* 7140
- Coccinellinae**
Australia 2
biology 2
control, arthropod pests 2
taxonomy 2
- Coccipolipus cactii**
hosts, *Chilocorus cacti* 4470
Mexico 4470
taxonomy, new species 4470

- Coccipolipus oconnori*
hosts, *Chilocorus stigma* 4470
taxonomy, new species 4470
USA 4470
- Coccobius*
China 6114
control, *Hemiberlesia pitysohila* 6114
- Coccobius azumai*
hosts, *Hemiberlesia pitysohila* 5951
Japan 5951
taxonomy, new species 5951
- Coccobius fulvus*
biology, dispersal 221
hosts, *Unaspis yanonensis* 221, 11665
mandarins, orchards, Japan 11665
- Coccoidea**
bamboos, China 9517
biology 1752, 7311, 9285, 10892
Citrus, Egypt 572
coffee, Kenya 10881
control
insecticides 910, 10881
integrated control 3769
distribution, Pacific Islands 7273
food plants 9285
fruits, Europe 2695
grapes, Taiwan 3769
greenhouse crops, German Democratic Republic 910
India 10716
Italy, bibliographies 9285
Japan 4540
ornamental plants
China 10892
USSR 1752
Western Australia 11778
parasitoids 4540, 8365, 9517
pheromones, reviews 7342
predators 572, 2514
Saudi Arabia 1831
taxonomy 7273, 9285
USSR 2514
- Coccophagoides forbesi*, taxonomy, from *Prospaltella* 2460
- Coccophagoides pulchellus*, taxonomy, from *Prospaltella* 2460
- Coccophagus**
Citrus, orchards, Cuba 9712
hosts
Coccus 9712
Coccus viridis 10463
parasitoids 10463
taxonomy, synonyms, *Taneostigmoidella* 240
- Coccophagus atratus*
biology, oviposition 209
hosts, *Filippia gemina* 209
- Coccophagus coorgensis*, taxonomy, synonyms, of *Coccophagus pseudococci* 240
- Coccophagus hawaiiensis*, hosts, *Coccus pseudomagnoliarum* 2756
- Coccophagus horatii*, taxonomy, to *Encarsia* 2460
- Coccophagus indicus*, taxonomy, synonyms, of *Coccophagus pseudococci* 240
- Coccophagus ishihi*
control, *Coccus pseudomagnoliarum*, evaluation 2756
Japan 2756
- Coccophagus japonicus*, hosts, *Coccus pseudomagnoliarum* 2756
- Coccophagus javensis*, taxonomy 240
- Coccophagus lycimnia*
China 3968
hosts
Ceroplastes japonicus 3968
Toumeyella pini 8839
Pinus taeda, nurseries, Georgia 8839
- Coccophagus manii*, taxonomy, synonyms, of *Coccophagus pseudococci* 240
- Coccophagus pseudococci*
taxonomy 240
synonyms
Coccophagus coorgensis 240
Coccophagus indicus 240
Coccophagus manii 240
Coccophagus zebratulus 240
- Coccophagus pseudococci* group, taxonomy 240
- Coccophagus pulvinariae*
Citrus, orchards, Cuba 9714
hosts, *Coccidae* 9714
morphology 9714
- Coccophagus sexvittatus*, taxonomy 240
- Coccophagus varius* group, taxonomy 240
- Coccophagus yoshidae*
China 3968
hosts
Ceroplastes japonicus 3968
Coccus pseudomagnoliarum 2756
- Coccophagus zebratulus*, taxonomy, synonyms, of *Coccophagus pseudococci* 240
- Coccotrypes fallax*
control, cultural control 9927
Rhizophora mucronata, Philippines 9927
- Coccus amaryllidis*, taxonomy, to *Vryburgia* 11788
- Coccus bromeliae*, taxonomy 11788
- Coccus hesperidum*
Citrus, Cuba 9712
control 9922
Cucurbitaceae 4790
ornamental plants
Egypt 776
Hungary 9922
parasitoids 9712
predators 4790
- Coccus liliacearum*, taxonomy, synonyms, of *Vryburgia amaryllidis* 11788
- Coccus mamillariae*, taxonomy, to *Spilococcus* 11788
- Coccus pseudomagnoliarum*
biological control agents, evaluation 2756
Citrus, California 2756
food plants, Japan 2756
parasitoids 2756
- Coccus viridis*
Citrus, Cuba 9712
coffee
Cuba 10878
India 8796, 9898-9899
control
insecticides 9899
microbial pesticides 8796, 9898
ecology, population dynamics 5754
mandarins, India 5754
parasitoids 9712, 10463
predators 10452
- Coccygominus disparis* (see *Pimpla disparis*)
- Coccygominus instigator* (see *Pimpla hypochondriaca*)
- Cochlicella acuta*
biology 369
cereals, Australia 369
control 369
- Cochlicella barbara*
biology 369
cereals, Australia 369
control 369
- Cochliobolus pallescens*, insecticides, effects 11194
- Cochliobolus sativus*, insecticides, effects 11194
- Cochylis hospes*
biology, phenology 7851
control, cultural control 4913
distribution, USA 7851
monitoring, traps 7851
morphology 10252
sunflowers 7851
USA 4913
- Cocoa** (*Theobroma cacao*)
Acromyrmex subterraneus, Brazil 9891
arthropod pests, Asia 3416
Bathyoelia thalassina, Nigeria 4947
Chrysomelidae, Puerto Rico 5899
commodities
Corcyra cephalonica 7086
Ephestia cautella 7988
insect pests, Brazil 7258
Conopomorpha cramerella
Malaysia 5900, 8792
yield losses 760
Conotrachelus humeropictus, damage 1748-1749
entomology 11273
- Cocoa** cont.
Forcipomyia, pollination 4948
Helopeltis, damage 7884
Helopeltis theobromae, Malaysia 761
Homoptera, varietal susceptibility 10875
insect pests 6456
biology 7258
Brazil, books 7258
control 7258
Malaysia 1747
insecticides, residues 9892
insects
Brazil 759
sampling 759
intercropping, bananas, pest control 8654
Lawana conspersa, Malaysia 10876
oils, attractants, insects 3946
Pantorhytes plutus, Papua New Guinea 4950
Planococcus citri, Brazil 4948
Planococcus princeps 16
plantations
Coelophora vesiculata, Papua New Guinea 10868
insects, Costa Rica 3946
Ochetomyrmex auropunctatus, Brazil 4948
research, Ghana, reports 11273
Sarawak, reports 7299
- Coconut oil**
effects
Aphis craccivora 6887
Callosobruchus maculatus 6047
Dermestes maculatus 6017
toxicity
Sitophilus zeamais 7102
Vigna mungo 6887
- Coconuts** (*Cocos nucifera*)
Aceria guerreronis
Cuba 498
St. Lucia 3759
arthropod pests, Asia 3416
Aspidiotus destructor, India 10666
Brontispa longissima
Taiwan 5696
Western Samoa 3760
Chrysomphalus aonidum 6458
Coccoidea, Nigeria 2700
conferences 11272
Derelomorphus eburneus 3925
Eriophyidae, Costa Rica 8550
insect pests, India 6783
Leucopholis coneophora, India 5697
Odontotermes obesus, India 10665
Opisina arenosella
India 9649-9650, 10668
Sri Lanka 3757
Oryctes monoceros, Tanzania 5695
Oryctes rhinoceros
India 497, 9648
varietal susceptibility 10669
Parasa lepida, Asia 6454
pest control 6783, 10173
pest resistance 11272
Philippines, reports 8180
plantations
Acari, India 6782
Formicidae, Sri Lanka 3757
parasitoids, India 9649-9650
predatory arthropods, India 11619
Raoiella indica 10664
India 7711, 11619
research, books 10173
Rhynchophorus ferrugineus, India 6782, 9647
Sarawak, reports 7299
Sri Lanka, reports 7292
- Cocos Islands**, aquatic insects, catalogues 12031
- Cocos nucifera* (see Coconuts)
- Cocos weddelliana*, *Aceria guerreronis*, Brazil 7710
- Codonanthe*, seeds, *Camponotus femoratus*, Peru 10402
- Coelaenomenodera elaeidis*
parasitoids 2497
tropics 2497
- Coeloides**
ecology, population dynamics 8838

Coeloides cont.
 hosts, *Pissodes castaneus* 8838
 Pinus, forests, France 8838
Coeloides brevicaudis, taxonomy 8353
Coeloides sordidator
 Europe 6000
 hosts, *Pissodes* 6000
Coelophora vesiculata
 cocoa, plantations, Papua New Guinea 10868
 taxonomy, new species 10868
Coenonympha pamphilus
 ecology 6392
 UK 6392
Coenosia tigrina
 biology, phenology 1708
 onions, fields, Michigan 1708
 prey, Lumbriidae 1708
Cofana spectra, rice, resistance 6725
Coffea arabica (see Coffee)
Coffea canephora (see Coffee)
Coffee (*Coffea* spp.)
 Abacarus afer, Zaire 9525
 Antestiopsis, East Africa 769
 Apate monachus, Cuba 1580
 arthropod pests 6221
 Asia 3416
 Cape Verde 151
 Baeturia maddisoni, Oceania 10239
 books 6221
 Carineta, Brazil 9895
 Ceratitidis capitata 494, 3951
 Guatemala 6583
 Hawaii 766
 Coccoidea, Kenya 10881
 Coccus viridis, India 8796, 9898-9899
 commodities, fumigants, residues 3050
 Doristiana, Brazil 9894
 Eulophonotus myrmeleon, Africa 6456
 Fidicina pronoe, Brazil 8793
 Formicidae, Cuba 10880
 habitats, *Lemnia kaszabi*, Papua New Guinea 10868
 Hemiptera, Cuba 10878
 Hypothenemus hampei 6987
 Africa 6986
 Brazil 4951
 El Salvador 763
 Guatemala 762
 Indonesia 8795
 Mexico 767-768
 New Caledonia 4955, 10877
 yield losses 3950
 India, reports 7294
 intercropping, bananas, pest control 8654
 Oiketicus kirbyi, Brazil 816
 Orthezia praelonga, Brazil 4954
 Oxydia vesulia, Puerto Rico 3949
 Parasa lepida, Asia 6454
 Perileucoptera coffeella
 Brazil 9893
 Cuba 4952
 Guatemala 765
 Puerto Rico 1750
 varietal susceptibility 7885
 pest control
 information 4956
 Yemen Arab Republic 11776
 Planococcus, Africa 7887
 Planococcus citri 8794, 9834
 plantations
 Belvosia, Costa Rica 3948
 beneficial insects, Brazil 9893
 Cephalonomia, Brazil 4951
 parasitoids
 Costa Rica 4953
 Puerto Rico 1750
 Solenopsis geminata, Guatemala 6583
 Poecilophila hebraea, damage 7886
 Pseudococcus comstocki 6460
 Rothschildia orizaba, Costa Rica 3948, 4953
 Sarawak, reports 7299
 Tephritidae, Hawaii 11777
 Xyleborus lecontei, Cuba 9897
 Xylosandrus compactus
 Cuba 10879
 India 2934
 Xylotrechus quadripes, India 3947
Coix lacryma-jobi
 Chilo partellus, India 334
 extracts, effects, *Locusta migratoria* 3474
 habitats, *Cotesia flavipes*, India 334
Colaranea viriditas (see *Araneus viriditas*)
Colaspis
 biology 5899
 cocoa
 Brazil 759
 Puerto Rico 5899
Colaspis favosa, *Juglans nigra*, Virginia 11796
Colcemid, effects, *Locusta migratoria* 11336
Colchicine, chemosterilants, mites 8940
Cold resistance
 Agrotis ipsilon 2183
 Coleoptera 821, 1059
 Cydia pomonella 4743
 Delia radicum 2304, 8749
 Diabrotica 11361
 Drosophila melanogaster 6403
 Epiblema scudderiana 2305, 3368, 6402
 Epirrita autumnata 10003
 Eurosta solidaginis 783, 10350
 Hippodamia convergens 9399
 insects 58, 124, 3444
 reviews 6439
 Ips acuminatus 40
 Macdunnoughia confusa 7403
 Mamestra configurata 2304
 Mycophila 10020
 Myzus persicae 8266
 Nymphalidae 38-39
 Papilio 123
 Pieris brassicae 9251
 Plutella xylostella 2811
 Solenopsis 6515
 Thecodiplosis japonensis 843
Cold storage
 Antheraea mylitta 10330
 control
 Anastrepha suspensa 3074, 8964
 Cydia pomonella 11894
 effects
 Campoletis chlorideae 219
 Eurytoma onobrychidis 5688
 Tortricidae 8962
 Leptomastix dactylopii 10459
 nuclear polyhedrosis viruses 1952
Colemania spheuarioides
 control, insecticides 2827
 Vigna unguiculata, India 2827
Coleomegilla maculata
 maize, fields, Quebec 6714
 parasitoids 6530
 pathogens 3878
 prey, Aphididae 6714
Coleomegilla maculata lengi
 Delaware 6542
 physiology, pheromones 6542
Coleophora dahurica
 Larix, China 7510
 predators 7510
Coleophora klimeschiella
 California 4590
 control, *Salsola australis* 4590
 parasitoids 4590
Coleophora laricella
 forests, German Federal Republic 2996
 predators 2996
Coleophora parthenica
 California 11511
 control, *Salsola australis* 11511
 natural enemies 11511
Coleophoridae
 catalogues 2103
 distribution, China 6258
 taxonomy 6258
Coleoptera
 Antarctica 1186
 apricots, India 11654
 Australia, catalogues 12032
 Bacillus thuringiensis, toxicity 4120
 bibliographies 8155, 10166
 biochemistry, proteinases 8224
 biology 1005, 4254, 7259, 7268
 behaviour 4367, 5291
 life cycle 1043
Coleoptera cont.
 biology cont.
 migration 8828
 Capsicum annuum, fields, California 6642
 Cardueae 6645
 Cecropia, Ecuador 2952
 cereal grains
 Belgium 11033
 detection 4080
 India 4069
 Chile 4400, 5231
 climbers, German Federal Republic 3966
 coastal plant communities, Chile 4596
 cocoa, Brazil 759
 collections 6249
 conifers
 Ontario 8862
 Romania 6002
 conservation 6397
 control 1005, 3048, 7259, 11654
 insecticides 10671, 10818, 11033
 microbial pesticides 1019, 5161, 5164
 cotton, resistance 7858
 crops, Brazil 7259
 dihydropyrans, effects 6956
 distribution
 California 1984
 Pacific Islands 4384
 ecology 2983, 6645, 12032
 diversity 9973
 habitats 3966
 water relations 2330
 ectoparasites 3514, 8374
 Emex australis, South Africa 3608
 forest trees 5024
 India 10979
 USA 11869-11870
 forests
 Canada 4047
 Czechoslovakia 2097
 Finland 4026
 German Federal Republic 1818
 Korea Republic 8882
 New Zealand 7018, 9973
 Norway 7037
 Panama 5042
 fungi, interactions, reviews 4367
 German Federal Republic 5061
 grasses, Kansas 8528
 Greece 4403
 habitats
 German Federal Republic 2598
 New Zealand 4378
 UK 10351
 Hibiscus, India 8768
 insecticides, toxicity 846, 10109
 Italy 3095
 Kenya 2330
 lucerne, fields, California 6642
 Mentha asiatica, USSR 2927
 Mesostigmata, interactions 2094
 monitoring 3048
 traps 174, 2400, 8828, 8862, 9973
 morphology 1042, 4254, 4367, 6645
 Netherlands 9100
 North America 9166
 Opuntia imbricata, pollination 7554
 parasitoids 6002
 pathogens 3095, 5104, 7097, 7130, 11099
 Phaseolus vulgaris, tropics 8696
 pheromones, reviews 1080
 Phoetaliotes nebrascensis, interactions 8528
 physiology
 flight 5291
 pigments 2251
 Picea abies, Poland 5986
 Piper arieianum, Costa Rica 8826
 plant extracts, effects 3151
 plant pathogens 8696
 transmission 5103, 11899
 polymorphism 1043
 Populus, Poland 7953
 predators 374, 4451, 4544, 8328, 8777
 preservation 3461
 prey
 Hylesinus varius 5061

Coleoptera cont.

prey cont.

Nematoda 10639

Quercus, forests, Poland 7050*Quercus dalechampii*, Czechoslovakia 8828

rice, fields, Philippines 3701

rodenticides, toxicity 8124

Saudi Arabia 174

seeds, commodities 11056

small fruits, Belgium 10671

soil, Colorado 10639

South America 7466

Spain 4569

Stillwell's Syndrome, associations 4047

stored products 6029

taxonomy 7272

USA 11019

sugarbeet, Italy 10818

sugarcane, America 10549

Sweden 4268

Switzerland 374

taxonomy 1000, 1005, 4254, 4268, 9166, 12032

keys 10198

tobacco, Zimbabwe 3944

trees, China 5989

Turkey, books 1005

tyres, South Africa 8318

UK 9314, 9342

Umbelliferae, Poland 10820

USSR 2400, 3460, 10198

Utah 3492

Vicia sativa, UK 1530

water, indicator species 9314

weeds, Wyoming 6654

Ziziphus spina-christi, Egypt 5744**Coleosoma blandum**, groundnuts, fields, India 8722**Coleosoma octomaculatum**

physiology, bioenergetics 11437

prey, *Nilaparvata lugens* 11437**Colias alfacariensis** (see *C. australis*)**Colias australis**, Spain 1177**Colias crocea**, physiology, metabolism, nitrogen 5292**Colias erate**, Hungary 2370**Colias erate poliographus**

lucerne, Japan 1535

pathogens 1535

Colias eurytheme, lucerne, California 11611**Colias hyale**, Spain 1177**Colias philodice**

biology, behaviour 6767

food plants 6767

Colinus virginianus, insecticides, effects 969, 4188, 6197**Collabismodes rhombifer** (see *Faustinus rhombifer*)**Collards** (see Kale)**Collaria scenica**

biology, phenology 3656

fungicides, effects 3656

wheat, Brazil 3656

Collembola

biology 5029, 7268

development 1052

environmental factors 7030

Brazil 6525

checklists, Poland 1190

Chile 5231

Citrus, orchards, USSR 3813control, *Rhizoctonia solani* 9020, 10598*Cryptomeria japonica*, plantations, Japan 7030

cultural methods, effects 10598

earthworms, interactions 8538

ecology 1694, 4383, 4987, 7016, 8881

population dynamics 1349, 5381, 7934

fertilizers, effects 3813

fields 10598

forest litter, Hungary 7016

forests

Korea Republic 8881-8882

Spain 4987

fungicides, effects 2038

grasslands, UK 8535

habitats, Pennsylvania 8538

Collembola cont.

insecticides

effects 7957, 8535

toxicity 11204

North America 9158

Nothofagus pumilio, forests, Chile 5029

pathogens 8980

potatoes, fields, Netherlands 1694

predators 3518, 6525, 7030, 8668

radishes, German Federal Republic 3893

rodenticides, toxicity 8124

soil

Brazil 1859

India 7934

Mediterranean countries 5382

New Mexico 9323

Spain 4383

taxonomy 3240, 9158

urban areas 1190

USSR 5381

weeds, Wyoming 6654

wheat, fields 2038

Ziziphus spina-christi, Egypt 5744**Colletes cunicularius**, biology, environmental factors 8272**Colletotrichum corchori**, insecticides, effects 8783**Colletotrichum falcatum** (see *Glomerella tucumanensis*)**Colletotrichum gloeosporioides** (see *Glomerella cingulata*)**Colletotrichum gloeosporioides f.sp. manihotis** (see *Glomerella cingulata*)**Colloquia** (see Conferences)**Colocasia**, *Mimegralla coeruleifrons* 6670**Colocasia esculenta**

control, Acari 1254

insect pests, damage 2879

Spodoptera litura 4894**Colombia***Aleurotulus anthuricola* 4964

Aleyrodidae 2148, 11747

natural enemies 711

biological control 5160

cassava, arthropod pests, reports 712

Cosmopolites sordidus 583*Empoasca kraemeri* 5806*Erinnyis ello*, parasitoids 4890*Hispoleptis subfasciata*, parasitoids 1540*Hydrellia griseola*, parasitoids 1469*Leptopharsa madrigali* 9790*Mononychellus tanajoa* 713

oil palms

insect pests 1543

pollinators 1541

Sogatodes orizicola 5636

Tetranychidae, predators 9841

Zulia colombiana 1512**Colomerus vitis**

biology 11625

Egypt 324

grapes, Hungary 11625

predators 220

Colopterus posticus*Annona cherimola* × *A. squamosa*, Florida 4804

distribution, USA 4794

Coloradia pandora, *Pinus ponderosa*, Arizona 11821**Coloradoa rufomaculata**, genetics, chromosomes 5347**Colotis evagore**

biology 1408

Capparis spinosa, Spain 1408**Colotois pennaria**

Hungary 10277

pheromones 10277

Colposcelis signata

control, insecticides 2827

Vigna unguiculata, India 2827**Combretum**, *Eulophonotus myrmeleon*, Africa 6456**Combretum molle**, *Calepitrimerus brochus*, South Africa 9667**Combretum padoides**, extracts, molluscicidal properties 9039**Commelina ensifolia**, *Eriophyes ensifoliae*, India 10738**Commelina erecta**, *Phthiria punctipennis*, Florida 5566**Commelinaceae**, *Phthiria punctipennis*, Florida 5566**Commicarpus scandens**, *Asphondylia boerhaaviae*, galls 1386**Comoros**, Aphididae 10226**Comostolopsis germana**

biology 6641

Chrysanthemoides, South Africa 6641control, *Chrysanthemoides monilifera*, evaluation 6641

food plants 6641

Comoviruses, vectors, Coleoptera 8006**Comperiella bifasciata***Citrus maxima*, orchards, India 11664control, *Aonidiella aurantii* 3815hosts, *Aonidiella aurantii* 4779, 11664

oranges, orchards, South Africa 4779

South Africa 3815

Comperiella lemniscata

biology 11661

Citrus, orchards 11661

distribution, Italy 11661

hosts, *Chrysomphalus dictyospermi* 11661**Compositae**

Aphidinae, India 3436

biological control 1382

Chromatomyia 6456

Cynipidae, Spain 4988

Cynthia cardui 323extracts, effects, *Ostrinia nubilalis* 10539*Helicoverpa*, Australia 2361*Neaspilota*, California 3635*Ophraella* 11509*Papilio oregonius*, Washington 4345*Pterolonche inspersa* 5558*Stolas fuscata* 4588**Composts**, *Janetiella pyriformis*, Switzerland 4531**Compsilura concinnata**

Cruciferae, fields, Japan 3845

forests, Massachusetts 11810

hosts

Lymantria dispar 11810*Pieris* 3845**Conchaspidae**

distribution, Pacific Islands 7273

taxonomy 7273

Conchyloctenia tigrina

biology 3606

Solanum, South Africa 3606**Conessine**, insecticidal properties 7243**Conferences**

Actes des Colloques Insectes Sociaux 9386-9392, 9924, 10217, 10348, 10403-10411, 10414-10422, 11428

Acylurea insecticides 11154-11155

Advances in integrated pest management programs for ornamental plants 6998-7001, 7893

African Symposium on Horticultural Crops 6128

Africanized honey bees and bee mites 1241-1244, 1246-1250, 1252-1266, 1268-1270, 1272-1273, 2104

Alternative systems in plant protection 10205

Alternatives to chemical control of insects 3439, 4152-4153, 4161
American Bee Research Conference 7287

American Chemical Society 3222

American Phytopathological Society 9127

American Society for Horticultural Science 10745-10746
Annual Meeting of the North Central Branch of the Entomological Society of America 5449-5450, 5613, 5789, 5818-5819, 6240, 6530

Apple culture in the Tropics and Subtropics 9679

Apple culture towards the nineties 9126

Application to seeds and soil 2111, 8700, 8728, 9025, 9092

Arab Congress for Plant Protection 10204

Conferences cont.

- Australian Macadamia Research Workshop 2105
Bacillus thuringiensis 1019
 Bayer East and Central African Coffee Conference 10881
 Beltwide Cotton Production Research Conferences, USA 1017-1018, 10854
 Biological aspects of energy saving in protected cultivation 2781
 Biological control in glasshouses 5237
 Biological control of *Heliothis* spp. by *Microplitis croceipes* 1296-1301, 1970, 2438, 2901, 3123
 Biological control of soil-borne plant pathogens 8052
 Biopesticides, theory and practice 10216
 Brazilian Congress of Zoology 11721
 Brighton Crop Protection Conference, Weeds 8350, 8444, 8472, 9085, 10368, 10505, 11132-11135, 11182, 11215, 11228, 11504, 11953
 Carcinogenicity and pesticides 10211
 Chemical Congress of North America 4228
 Chemistry and fate of organophosphorus compounds 9130
 Chirality in chemical crop protection 11307, 11960-11962
 Colloque Franco-suisse de Microscopie Electronique 4566
 Comparing laboratory and field pesticide performance 1601, 2112
 Cone and Seed Insects Working Party 4242, 5984-5992, 5994-6011
 Congreso Nacional de Fitopatologia 8454, 8690, 9128
 Cotton Disease Council and Cotton Improvement Conference 1018
 Cotton Insect Research and Control Conference 1017
 Cropping in the semiarid areas of Zimbabwe 1600
 Current status of insect monitoring and attractants 4238
 Dalla qualità dei prodotti agricoli a una corretta alimentazione 7082
 Desert locusts in the Caribbean 1016
 Deutsche Gesellschaft Allgemeine und Angewandte Entomologie 1612, 1640, 2126, 2277, 2435, 2479-2481, 2558, 2570, 2582, 2597-2599, 2608, 2623, 2694, 2706, 2993-2998, 3197, 3221, 3511-3512, 3785, 3929, 3989, 4203
 Deutsche Gesellschaft Angewandte und Allgemeine Entomologie 1742
 Diseases of crop plants in the Tropics 9702
Drosophila Workshop 3355
 Eastern U.S. Tracheal Mite Symposium 11271
 Ecdysone Workshop 10307-10308, 11145, 11327-11337, 11353-11355, 11970
 Ecology of insect introductions 6392
 Ecotoxicological stress in ecosystems 1020
 Effects of agricultural development on vector-borne diseases 6239
 Entomological Society of America 2106
 Estimation and analysis of insect populations 10210
 European Grassland Federation 7674, 8175
 European Workshop on Parasitoid Insects 1343, 1384
 Evolution and ecology of social behaviour 5505
 Evolution of insect life cycles 1043, 1145-1146, 1149-1150, 2095
 Federation of Crop Science Societies of the Philippines 11266
 Festschrift in honour of Professor Gerald Kerkut 2243-2244, 2546-2547, 3173
 Finnish-Soviet Symposium on Biological Pest Control 4244, 5775,

Conferences cont.

- Finnish-Soviet Symposium on Biological Pest Control cont.
 5786, 5793, 5798, 6099, 6115-6123
 Forecasting and integrated control of migrant noctuids 9889
 Formulation of pesticides and pharmaceuticals; I, colloidal aspects 9043-9044
 Fruit breeding 1563, 1566, 2110
 Fruit flies of economic importance 1021, 4240
 Fumigation and controlled atmosphere storage of grain 12034
 Fungus-growing termites and the tropical environment 5506-5524, 6241, 6598
 Genetic sexing of the Mediterranean fruit fly 10207
 Green Revolution revisited 4673, 5154-5156, 5241, 5672
 Growth regulators in fruit production 7704-7705, 8173
 Heavy metals and pesticide residues in medicinal, aromatic and spice plants 9124
 Host selection behavior of *Helicoverpa armigera* 10215
 Hybrid rice 9601
 I. Harpaz Memorial Meeting 998
 ICOM Committee for Conservation, Sydney 1888-1890, 1911, 2006
 Improvement of sweet potato (*Ipomoea batatas*) in East Africa 6238
 Improvement of the production and processing of poplar and willow wood in Croatia 11792
 Influence of environmental factors on the control of grape pests, diseases and weeds 6243
 Insect behavioral ecology 4447, 4477, 4856-4857
 Insects affecting reforestation: biology and damage 10918-10929, 10931-10935, 10938-10944, 11265
 Integrated control in glasshouses 5236
 Integrated pest and disease control in hops 351
 Integrated pest control, progress and perspectives 8178
 Integrated protection in peach orchards 5238
 Integrated protection of pears 8625
 Integrated protection, quo vadis? 8641
 Interactions between soil-inhabiting invertebrates and microorganisms in relation to plant growth 1925
 Interamerican Society for Tropical Horticulture 4773
 International Cocoa Reseach Conference 1748
 International Conference on Phytopharmacy and Phytiatry 1682, 1745
 International Congress of Acarology 10208-10209
 International Congress of Entomology 2300, 6231, 7282, 9257-9258, 9270, 10186
 International Congress of Genetics 9273-9278, 9280-9281
 International Congress of Plant Pathology 8052
 International Congress of Plant Protection 3427, 9042
 International Congress on Agricultural Engineering 8068, 8138
 International Congress on Soilless Culture 1610
 International Crop Protection Information Workshop 4626, 4669, 4956, 5142-5153, 5175, 5239, 6104
 International Entomological Symposium 10174
 International Institute for Sugar Beet Research 10814-10816, 11737-11740, 12033
 International Oil Palm/Palm Oil Conference, Progress and Prospects 1541

Conferences cont.

- International Rice Research Conference 11267
 International Society for Soilless Culture 1610
 International Symposium on Bruchids and Legumes 11270
 International Symposium on Crop Protection 1876, 10534, 10817, 10849, 11128, 11137, 11207
 International Symposium on Interactions between Ants and Plants 10423
 International Symposium on Vegetables for Processing 8117
 International Wheat Genetics Symposium 7595-7596
 International Workshop on Rice Seed Health 2107
 International Workshop on Sorghum Stem Borers 1509
 Invertebrate synapses, models and mechanisms 5324-5325
 Invertebrate vectors of phytopathogenic agents 2109
 Is the organism necessary? 2205, 2247
 Isosteric replacements in drug and pesticide chemistry 9061
 Isotopic tracer aided studies of pesticide residues in stored products 10184
 Jornada ibérica de lepidopterología 1033, 1172, 1176-1177, 1194, 1197, 1373, 1400, 1408, 1588, 1755-1756, 1822-1825, 1827, 2073, 2343
 Korean Society of Applied Entomology 10214
 Latin American coffee cultivation 763-765
 Manejo integrado de plagas 4825, 5788
 Massachusetts Fruit Growers' Association Inc. 10689, 10703-10704
 Mechanisms and regulation of transport processes 8080
 Meeting on Light-activated Pesticides 3222
 Microbial control of weevils and environmental persistence of pathogens and nematodes 4239
 Mite pests of grapevine 6228
 Modern techniques in trace analysis of pesticides 11148-11149
 Monitoring and IPM of arthropod pests of small fruits 10186
 Multidimensional approaches to modern plant protection 6699-6700, 6719, 6796, 6816, 7164-7166, 8062, 8189
 National Agroacoustics Symposium 3303, 3377-3379, 3448, 3456, 3818, 3973-3974, 4057-4058, 4080
 National Congress of Biological Sciences 8292
 National Seminar and Workshop on Rice Field Weed Management 8505
 National Symposium on Coconut Breeding and Management 10669, 11272
 National Symposium on Nutritional Ecology of Insects 10206
 Natural products as a source for new agricultural chemicals 3104-3105, 3128, 3136-3137, 3167
 Nederlandse Plantenziektenkundige Vereniging 4245
 New Zealand Weed and Pest Control Conference 2009, 10553, 10581, 10634, 10638
 Nitrogen nutrition of legumes 1645
 Nordic Entomology Meeting 3295, 4034-4035, 4243
 North American Alfalfa Improvement Conference 3658, 3682, 3743, 7693-7695, 8176
 North Central Weed Control Conference 2003, 6184
 Northeastern Weed Science Society 6629

Conferences cont.

- On-farm and post-harvest losses of cereal crops in Africa due to pests and diseases 2589-2591, 2629, 2641, 2650, 3054-3057, 3141, 3717
- Origins of the North American insect fauna 4241
- Pest control in ornamental plants 10900
- Pest management in agroforestry systems 7928
- Pest management in citrus, cotton, sugarcane and sorghum, progress and problems 2627
- Pesticide formulations -innovations and developments 1934, 1997, 2001, 2108
- Pesticide residues and environmental contaminants 12035
- Pesticide residues in food 1023, 7301, 10224-10225
- Pests, pathogens and plant communities 11254
- Plant Protection Meeting, Netherlands 1014
- Plant Protection Meeting, Hungary 4600
- Plant Protection Scientific Meeting 8265, 8441, 8486-8487, 8527, 8534, 8568, 8594-8596, 8738, 8801, 8970, 9019, 9057, 9663
- Population dynamics of bark beetles, with special reference to *Ips typographus* 11836-11841, 11843-11854
- Portuguese Conference on Protein Crops 10783
- Production and marketing of tropical fruits 3750
- Progress and prospects in insect control 5317, 5547, 5616, 5840, 5875, 6028-6029, 6072-6073, 6100, 6105-6107, 6111-6113, 6124-6126, 6131-6132, 6142-6145, 6152-6155, 6209-6211
- Protected cultivation of ornamentals in mild winter climates 9125, 9906
- Quebec Society for the Protection of Plants 11268
- Reactions and movement of organic chemicals in soils 2068-2070
- Recent advances in the chemistry of insect control -II 6235
- Recent applications of vesicle and cell culture techniques 5288
- Recent developments in pesticide toxicology and registration 8174
- Regulation of insect reproduction 8179
- Resources of soil fauna in Egypt and Africa 10747
- Ricehoppers, hopperborne viruses and their integrated management 10212
- Root crops and the African food crisis 6932
- Sampling and analysis of relationships between insects, disease, nematodes, weeds and intercropping systems -method development 6242
- Seminar on Resources of Soil Fauna in Egypt and Africa 1165, 1311, 1348-1349, 1364-1365
- Slugs and snails in world agriculture 277-278, 299-316, 318-319, 327, 356-358, 369-371, 453-454, 463, 474-475, 483, 505, 598, 612, 640, 704-706, 950-954, 975, 1022
- Society for oilseed plants 2801-2802
- South African Centre for Cooperation in Agricultural Research Workshop 11056
- South African Sugar Technologists' Association 7583
- Structure activity relationships in pesticides research 3157-3158
- Sweet Potato Planning Conference 8177
- Symposium on Good Agricultural Practice 491

Conferences cont.

- Symposium on Insect-Fungus Interactions 4367, 4459, 4554, 4817, 5062-5065, 5102, 5123, 5164, 5240
- Symposium on Plantation Crops 9488, 9647-9650, 9898-9899, 9903-9905
- Symposium on Sensory Systems and Communication in Arthropods 11260
- Systematics of the North American insects and arachnids 9156-9168, 9371, 9437, 9463, 10213
- Theory and tactics of *Heliothis* population management 410, 657, 748, 758, 884-885, 914-915, 1015
- Toxic substances in agricultural water supply and drainage 10606, 11229-11230
- Tree mycoplasmas and mycoplasma diseases 1932
- Tropical agriculture research 2660-2661
- Umwelthygienische Aspekte bei der Bewertung von Pflanzenschutzmitteln aus Mikroorganismen und Viren im Zulassungsverfahren 6178-6182
- University of California Farm Machinery Conference 1547
- Use of parasitoids and predators to control agricultural pests 9672, 10089
- Vegetable research in Southeast Asia 10203
- Vegetables Improvement Gardening Workshop 5791
- Weed control in vegetable production 1381
- Whiteflies in field crops and vegetables 997
- Wilderness and natural areas in the eastern United States 1785
- Working Party on Insects and Other Animal Pests, FAO International Poplar Commission 11269
- Workshop on Evaluation of the Research Activities under PL-489 Programme (Title 3) for 1986-87 at BINA 6854
- Yugoslav Hop Symposium 7573
- Zoological Society of Israel 9129
- Congo**
- Caryedon*, parasitoids 5831
- Drosophila spinifrons* 11617
- Macrotermes muelleri* 5512
- Phenacoccus manihoti* 5851
- natural enemies 2100, 5852, 10837
- parasitoids 6935
- Sphaeroterms sphaerotherax* 9460
- Congovidia*, taxonomy 3228
- Congovidiella*, taxonomy, synonyms, of *Nanacarus* 3228
- Conidiobolus coronatus*, hosts, arthropods 3096
- Conidiobolus major*
- hosts, Tipulidae 8985
- identification, immunology 6066
- Conidiobolus obscurus*
- biochemistry, lectins 8972
- germination 894
- hosts
- Acyrtosiphon pisum* 8972
- Aphididae 5122
- insect pests 894
- identification, immunology 6066
- Conidiobolus thromboides*
- identification, immunology 6066
- soil, recovery 5136
- Coniesta ignefusalis**
- biology 9576
- control 1509
- cultural control 3684, 9576
- distribution 1509
- ecology 1509
- population dynamics 420
- food plants, Senegal 9576
- pearl millet
- Senegal 3684
- West Africa 420

Coniesta ignefusalis cont.

- sorghum
- Africa 3717
- West Africa 1509
- Coniferous forests**
- arthropods, communities 1865
- beneficial insects, Ontario 8862
- Carabidae, Finland 4015, 8913
- Coleoptera, Ontario 822
- Ips typographus*, Europe 1836
- Leptothorax*, Canada 195
- predatory arthropods, France 2958
- Conifers**
- Aphididae, Africa 7044
- arthropods, USA 10015
- Coleoptera, Ontario 8862
- Curculionidae, Bhutan 8847
- Dendrolimus punctatus*, China 7019
- habitats, *Pissodes*, Europe 6000
- Haematoloma dorsatum* 10000
- Hylobius abietis*, Sweden 5980, 10920
- insect pests 1809
- biology 7009
- Mexico 7009
- natural enemies 5985
- Lygus lineolaris*, North America 7955
- Ochropleura fennica* 10925
- Otiiorhynchus* 10924
- Scolytidae 1377
- Sirex* 6264
- Tenuipalpidae, France 2958
- Trypodendron lineatum*, British Columbia 8860
- Coniopterygidae**
- biology 11384
- Guinea 11384
- morphology 11384
- Conioscinella nuda**, grasses, Oklahoma 5678
- Coniothyrium**, *Spodoptera frugiperda*, interactions 1492
- Conium**, *Papilio zelicaon*, California 3358
- Conium maculatum**, damage 4876
- Conocarpus erectus**, *Curtara bermudensis*, Bermuda 11835
- Conocephalus dilatatus**, distribution, Italy 5416
- Conocephalus discolor**
- biology 7432
- Spain 7432
- Conocephalus divergentus**
- prey, *Scirpophaga incertulas* 2648
- rice, fields, China 2648
- Conoderus**
- maize, fields, Georgia 7608
- prey, *Spodoptera frugiperda* 7608
- Conoderus exsul**
- biology 4688
- maize, New Zealand 4688
- predators 4688
- Conogethes**, morphology, sensilla 8216
- Conogethes punctiferalis** (see *Dichocrocis punctiferalis*)
- Conomyrma insana**, biology 10192
- Conomyrma medeis** (see *C. insana*)
- Conophthorus banksianae** (see also *C. resinosae*)
- taxonomy, synonyms, of *Conophthorus resinosae* 804
- Conophthorus cembroides**
- biochemistry, cuticle 9942
- Pinus cembroides*, Arizona 9942
- Conophthorus conicolens**
- biochemistry, cuticle 9942
- Pinus leiophylla*, Arizona 9942
- Conophthorus coniperda**
- biochemistry, cuticle 9942
- Pinus strobus*, North America 9942
- Conophthorus edulis**
- biochemistry, cuticle 9942
- Pinus edulis*, Arizona 9942
- Conophthorus ponderosae**
- biochemistry, cuticle 9942
- Pinus*, USA 9942
- Pinus monticola*, Idaho 6006
- Pinus ponderosa*
- Arizona 11823
- USA 5991
- Conophthorus radiatae**
- biochemistry, cuticle 9942
- Pinus radiata*, California 9942

- Conophthorus resinosae**
 biochemistry, cuticle 9942
 biology, behaviour 6010
 Pinus, Ontario 9942
 Pinus resinosa, Michigan 6010
 taxonomy, synonyms, *Conophthorus banksianae* 804
- Conopidae**, morphology, wings 3261
- Conopomorpha cramerella**
 biology 10737
 biotypes 5900
 cocoa
 Malaysia 1747, 8792
 Sabah 760
 control
 insecticides 8792
 integrated control 1747
 crops, Malaysia 5900
 fruits, Taiwan 10737
 parasitoids 10737
 physiology, enzymes 5900
- Conotrachelus**, pathogens 4949
- Conotrachelus denieri**, food plants, Paraguay 8434
- Conotrachelus humeropictus**, cocoa, Brazil 1748-1749
- Conotrachelus nenuphar**
 apples, Quebec 8612
 control, insecticides 8612
- Conotrachelus neomexicanus**
 Pinus ponderosa
 Arizona 11823
 USA 5991
- Conotrachelus perseae**
 avocados, Central America 6460
 distribution, maps 6460
- Conservation tillage**, effects, invertebrates 8410
- Conservula cinisigna**, control, *Pteridium aquilinum*, evaluation 11504
- Consolida ambigua**, *Tyrophagus longior*, UK 8812
- Constrictotermes cyphergaster**, morphology, glands 10247
- Contarinia**
 control, insecticides 4977
 Jasminum sambac, India 4977
- Contarinia acuta**
 biology, phenology 4995
 ectoparasites 4995
 Pinus taeda, Louisiana 4995
- Contarinia baeri**, *Pinus sylvestris*, German Federal Republic 10942
- Contarinia lentis**, lentils, Czechoslovakia 8694
- Contarinia medicaginis**
 control, insecticides 2688
 lucerne, Poland 2688
- Contarinia oregonensis**
 control, insecticides 2999, 5998, 6007
 Pseudotsuga menziesii
 British Columbia 5998, 6003
 California 2999, 6007
 Oregon 4021, 5994
 sampling 6003
- Contarinia pisi**, peas, Sweden 647-648
- Contarinia sorghicola**
 biology 3715
 behaviour 6742
 phenology 4677
 cereals, USSR 1427
 control 3715
 natural enemies 3715
 parasitoids 1493, 4677
 sampling 2393
 sorghum
 Africa 3717
 Argentina 4677
 Brazil 6742
 India 2393
 Sorghum, Puerto Rico 1493
 sorghum
 Puerto Rico 3723
 resistance 1496, 1504, 8518
 Texas 8523
 Yemen Arab Republic 7658
- Contarinia tritici**
 biology 3653, 5582
 cereals, Italy 5582
 control 5582
 insecticides 388
- Contarinia tritici cont.**
 wheat
 China 3653
 Finland 9535
 German Democratic Republic 388
- Contarinia washingtonensis**
 control, insecticides 6007
 Pseudotsuga menziesii, California 6007
- Contarinia wattsi**, *Andropogon gerardii*, South Dakota 10645
- Contheylea rotunda** (see *Mambarilla rotunda*)
- Contortylenchus**, hosts, Scolytidae 8848
- Contortylenchus acuminati**, hosts, *Ips acuminatus* 4037
- Contortylenchus grandicollis**
 development 11074
 hosts, *Ips grandicollis* 11074
- Controlled atmospheres**
 control
 cereal grains
 insect pests 7101
 conferences 12034
 Cylas formicarius 8937
 museum specimens, insect pests 5079
 stored products pests 7115
 effects, *Cydia pomonella* 8278
- Controlled release**, plant protection, chemicals, books 10188
- Conura**
 Ecuador 1540
 hosts, *Hispoleptis subfasciata* 1540
- Convolvulaceae**, extracts, repellents, *Leptinotarsa decemlineata* 6922
- Convolvulus**, *Bemisia tabaci*, Turkey 1736
- Convolvulus arvensis**
 arthropods 1381
 biological control 1381, 10517
 extracts
 synergism 3148
 toxicity, Coleoptera 3147-3148
 Helicoverpa armigera, India 9820
 Tetranychus urticae 3621
 Zenodoxus brosiiformis, Czechoslovakia 2560
- Conyza bonariensis**, *Dorylus orientalis*, China 9737
- Conyza canadensis**, *Dorylus orientalis*, China 9737
- Conyza dioscoridis**
 extracts
 synergism 3148
 toxicity, Coleoptera 3147-3148
- Cook Islands**, *Phytoseiulus macropilis* 9646
- Cooking oils**, insecticides, residues 8118
- α -Copaene**, attractants, *Ceratitis capitata* 3211
- Copaifera langsdorfii**
 Lepidoptera, Brazil 807
 Stenoma assignata, Brazil 2962
- Copidosoma floridanum**
 biology, behaviour 4857
 hosts
 Chrysodeixis includens 4857, 10444
 Plusia 1687
 Microgaster demolitor, interactions 10444
 potatoes, fields, India 1687
 soyabeans, fields, South Carolina 4857
 taxonomy
 from *Litomastix* 2124
 synonyms, *Litomastix maculata* 2124
- Copidosoma graminis**
 habitats, Australia 5583
 hosts, Noctuidae 5583
 taxonomy, new species 5583
- Copidosoma koehleri**
 hosts, *Phthorimaea operculella* 2868
 pesticides, effects 2868
 potatoes, fields, South Africa 2868
- Copidosoma recurvariae**
 hosts, Gelechiidae 4540
 taxonomy, new species 4540
 USSR 4540
- Copidosoma sinevi**
 hosts, Gelechiidae 4540
 taxonomy, new species 4540
 USSR 4540
- Copidosoma truncatellum**
 hosts, Noctuidae 9807
 soyabeans, fields, Louisiana 9807
- Copitarsia consueta**
 Chile 4512
 control 8663
 globe artichokes, Chile 8663
 parasitoids 4512
- Copitarsia turbata**, *Chenopodium quinoa*, Bolivia 9606
- Copper**
 accumulation, slugs 9483
 assimilation, Mollusca 7546
 effects, soil invertebrates 10018
 metabolism, *Drosophila melanogaster* 8258
 pollutants, Sphingidae 1835
 residues
 Diprionidae 5977
 forest pests 9958
- Copper fungicides**, nontarget effects, Phytoseiidae 9665
- Copper oxychloride**
 effects
 mites 5711
 nuclear polyhedrosis viruses 9009
 mixtures, nontarget effects,
 Kampimodromus aberrans 5715
- Copper sulfate**
 control
 pomegranates, insect pests 3822
 Varroa jacobsoni 911
 effects, *Drosophila melanogaster* 5190
 nontarget effects, *Apis mellifera* 911
 toxicity
 Achatina fulica 5536
 Deroceras reticulatum 2551
- Copra**, oils, effects, *Sitophilus zeamais* 4065
- Copris**
 Africa 6262
 Afrotropical Region 1031
 taxonomy 1031, 6262
- Copris bootes group**
 Afrotropical Region 1031
 taxonomy 1031
- Copris incertus**, pastures, Australasia 11596
- Coprosma repens**, orchards, *Amblyseius victoriensis*, New South Wales 8631
- Coptodisca negligens**, cranberries, Connecticut 9657
- Coptotermes**
 Australia 11349
 biochemistry, cuticle, hydrocarbons 11349
 forest trees, damage 831
- Coptotermes acinaciformis**
 Australia 11349
 biochemistry, cuticle, hydrocarbons 11349
- Coptotermes formosanus**
 biochemistry
 cuticle 8395
 hydrocarbons 11348
 biology 2526, 3073
 behaviour 4552, 6595, 10480
 buildings, Florida 11481
 distribution, South Carolina 2526
 fumigants, toxicity 2528
 growth regulators, effects 4553, 8959
 Hawaii 9458
 insecticides
 effects 6595, 10480
 toxicity 9458, 10108
 monitoring 11481
 physiology
 chemical composition 5336
 enzymes 10974
 water relations 6603
 Picea jezoensis, wood, resistance 7112
- Pinus**
 wood 3073, 4553
 USA 8961
 resins, toxicity 7112
 sampling 2526
 soil 9458
 Taxodium distichum, Louisiana 10974
 USA 8395
 wood 2526, 4552, 8959

- Coptotermes frenchi*
Australia 11349
biochemistry, cuticle, hydrocarbons 11349
- Coptotermes lacteus*
Australia 11349
biochemistry, cuticle, hydrocarbons 11349
- Corchorus*, *Macronellicoccus hirsutus*, India 8022
- Corchorus capsularis* (see Jute)
- Corchorus olitorius* (see Jute)
Spodoptera litura, Philippines 5894
- Corecya*, predators 3506
- Corecya cephalonica*
biology
development 7995
environmental factors 7086, 10775
cashews, commodities 867
commodities 7086, 7995
control
chilling 11041
dusts 7094
diets 9359
extracts, adjuvants, insect viruses 9004
fumigants, toxicity 6169
groundnuts, commodities 7094
growth regulators, effects 2071, 4171, 11176
Indian mustard, varietal susceptibility 10775
insecticides
effects 7188
toxicity 3165
morphology, brain 5275
parasitoids 244, 5453, 6561, 11461
pathogens 4158, 9007, 11088
physiology
amino acids 7188
proteins 7377
plant extracts
growth regulators 4072
toxicity 2014, 10027
predators 218, 860, 3532, 3757, 7986, 8389
prey, Araneae 8349
rearing techniques 9359, 10386
rice
commodities 7106
damage 7973
wheat, commodities 11041
- Cordia dichotoma*, *Drosicha mangiferae*, India 5768
- Cordia nodosa*, Formicidae, Peru 8859
- Cordia tetrandia*, *Notacera tetrandia*, Guyana 11827
- Cordyceps*
culture techniques 5108
hosts
insects 5118
Lepidoptera 5108
- Cordyceps sinensis*, amino acids 3336
- Coreidae*, cotton, Africa 5884
- Coreopsis tinctoria*, *Calligrapha californica*, Virginia 9500
- Coriandrum sativum*
arthropod pests
biology 6233
control 6233
damage 6233
natural enemies 6233
commodities, *Systole albipennis* 870, 11898
Hyadaphis coriandri, varietal susceptibility 7571
insecticides, residues 1407, 10527
Petrobia latens, India 5577
- Coriaria arborea*
habitats, *Centrodora scolypopae*, New Zealand 8559
Scolypopa australis, New Zealand 8559
- Coridius janus*, food plants 11704
- Corimelaenidae*
monitoring, traps 9331
USA 9331
- Coriolus versicolor*, *Hadraule blaisdelli* 10756
- Cormiococcus*, taxonomy, new genus 7085
- Cormiococcus dieramae*
Dierama, commodities, South Africa 7085
taxonomy, new species 7085
- Corn** (US usage) (see Maize)
- Corn stunt mycoplasma-like organism**, vectors, *Dalbulus* 874
- Corn stunt spiroplasma**, vectors, *Dalbulus maidis* 8493
- Cornitermes cumulans*
Brazil 3464
control, insecticides 3464
insecticides, toxicity 4624
morphology, digestive system 1047
- Cornuaspis cupressi*, food plants 8804
- Cornus*, *Anthonomus quadrigibbus*, North America 8201
- Cornus florida*
Lymantria dispar, allelochemicals 8887
Rhagoletis pomonella, Illinois 543
- Cornutiplusia circumflexa*
ecology, population dynamics 9326
Egypt 9326
Iraq 1205
monitoring, traps 1205
- Coronilla varia*
Colias philodice 6767
Disonychia punctigera, Arkansas 3605
habitats, *Myiopharus ancillus*, Arkansas 3605
- Corsica**, *Camponotus vagus* 7474
- Corticeus*
ecology, population dynamics 9938
Israel 9938
prey, Scolytidae 9938
- Corticium rolfsii*
control, insecticides 10809
insecticides, effects 10580
- Corvus splendens*
insect viruses, interactions 872
prey
insect pests 872
Scarabaeidae 2338
- Corylus*
Aphididae, Czechoslovakia 4011
Cryptocephalus cordiger, France 2348
Curculionidae, Belgium 1876
- Corylus avellana* (see Hazelnuts)
- Corylus colurna*, *Pterocallis affinis*, India 2967
- Corythucha ciliata*
control, insecticides 2980, 5965, 8807
distribution, Austria 11001
morphology 4973
Platanus 11001
Switzerland 5965
Platanus acerifolia
Europe 4973
Hungary 5018
Italy 2980, 8807
- Corythucha cydoniae*, physiology, secretions 2208
- Cosmophorus cembrae*
hosts, *Pityogenes bidentatus* 11434
UK 11434
- Cosmopolites sordidus*
bananas 5762, 8027
Brazil 4795-4796
Colombia 583
Cuba 2777
New South Wales 7758
Puerto Rico 1593, 3823
biology 2777
control 583
insecticides 1593, 3823, 4796
insecticides
pathogenicity 8027
toxicity 8027
natural enemies 7758
pathogens 4795, 9730
predators 2777, 5762
- Cossidae**
crops, Spain 1373
distribution, Spain 6218
- Cossoninae**, taxonomy 3246
- Cossonus rotundicollis*
Fraxinus mandshuricus, USSR 8908
yeasts, interactions 8908
- Cossus cadambae*
pathogens 1799
Tectona grandis, India 1799
- Cossus cossus*
apples, Italy 557
biology, reproduction 177
control, trapping 557
rearing techniques 177
- Costa Rica**
Apis mellifera, ectoparasites 1273
Araneae 9950
Arrhenodes dispar 9961
Atta cephalotes 8921
Azeta versicolor 2964
Brevipalpus 802
cocoa, plantations, insects 3946
Eriophyidae 8550
Formicidae 2429
Microtylopteryx hebardii 3756
Paraponera clavata 5431
pest control 2065
Piper arieianum, insect pests 8826
Plutella xylostella, parasitoids 4825, 5788
Rothschildia orizaba
natural enemies 3948
parasitoids 4953
Tenuipalpus 4594
Tephritidae, parasitoids 4479
Tetranychus urticae 4713
Tuckerella 7739
Tuckerella knorri 576
- Costelytra zealandica*
attractants 5221
biology 6773
phenology 11597
control
insecticides 6206, 11598
integrated control 6756
forecasting 471
insecticides, effects 11597
legumes
New Zealand 6773
resistance 6773
New Zealand 5221, 11763
pastures, New Zealand 471, 4688, 6206, 6756, 11597-11598
physiology, enzymes 472-473
plant extracts, toxicity 11763
prey, *Conoderus exsul* 4688
- Cotesia chilonis*
biology 3533
China 3533
hosts, Lepidoptera 3533
- Cotesia congregata* (see *Apanteles congregatus*)
- Cotesia flavipes*
ecology, bioenergetics 9410
habitats, India 334
hosts
Chilo 334
Chilo partellus 2663, 8383
Euproctis scintillans 9410
Spilosoma obliqua 7520
physiology, nutrition 7520
rearing techniques 8383
sorghum, fields, India 2663
- Cotesia glomerata*
biology, behaviour 8384
cabbages, fields, Japan 6869
Cruciferae, habitats, Japan 9760
hosts
Ascia monuste 8334
Pieris 9760
Pieris brassicae 8384, 8684
Pieris rapae 6869
insecticides
effects 8684
toxicity 3497
- Cotesia hyphantriae*, distribution, Europe 2508
- Cotesia kazak*
biology
behaviour 6546
diapause 4530
hosts
Helicoverpa armigera 4530
Heliothis virescens 6546
- Cotesia kurdjumovi*, distribution, Europe 2508
- Cotesia marginiventris*
biology, behaviour 250, 5819, 7504, 8488
broccoli, fields, Virginia 1620

Cotesia marginiventris *cont.*
 hosts
 Helicoverpa zea 1620
 Heliothis 727
 Lepidoptera 11941
 Noctuidae 250, 8488, 10802
 Plathypena scabra 5819, 6572
 Spodoptera frugiperda 2473
 insecticides, effects 10802
 parasitoids 5819, 6572
 pathogens 11941
 songs 7504
 soyabeans
 fields
 Kentucky 5819
 South Carolina 10802
 tomatoes, fields, North Carolina 727
Cotesia melanoscelus
 biology 9972
 forests
 Maryland 11824
 Massachusetts 11810
 France 4016
 hosts, *Lymantria dispar* 3000, 4016,
 9972, 11810, 11824
 insecticides, effects 11824
 Quercus, forests, Maryland 3000
Cotesia orientalis (see *Apanteles*
 orientalis)
Cotesia plutellae
 biology 225, 7768
 Brassica, fields, Singapore 7775
 control, *Plutella xylostella* 5791
 fields, Pakistan 225
 hosts, *Plutella xylostella* 225, 6880,
 7768, 7775
 insecticides, effects 225
 Japan 6880, 7768
 Taiwan 5791
Cotesia rubecula
 biology, behaviour 9768
 cabbages, fields, British Columbia 9768
 hosts, *Pieris rapae* 9768
Cotesia ruficrus
 hosts, *Plusia* 1687
 potatoes, fields, India 1687
Cotesia telengai
 cotton, fields, USSR 2904
 hosts, *Agrotis segetum* 2904, 11932
Cotinis nitida
 biology, behaviour 7352
 pheromones 7352
Cotton (*Gossypium* spp.)
 Acari, Brazil 8771
 Acrosternum hilare, damage 10860
 Adelphocoris suturalis, China 738
 Agrotis ipsilon, China 7862
 Agrotis segetum, USSR 2904
 Aleyrodidae, Israel 743
 Amrasca devastans
 India 2393, 11771, 11774
 resistance 10866
 varietal susceptibility 7875
 Anthonomus, Arizona 8779
 Anthonomus grandis 944, 5879, 6955
 Arizona 4923-4924
 Brazil 6958-6959
 economic thresholds 4918
 Louisiana 6982
 Mexico 11769
 Mississippi 5881, 6969
 resistance 2925, 7856, 8772
 Texas 4937, 6975, 6978
 USA 9882
 Aphididae 6961
 China 749, 4921
 Texas 2906
 Aphis gossypii 1728, 2389, 4915, 5498
 Arizona 7869
 China 1727, 5874
 Israel 1737
 Texas 7870
 arthropod pests
 Africa
 books 7265
 identification 7265
 Arizona 6980
 Asia 3416
 Brazil 7852
 China 8064
 India 12021

Cotton *cont.*
 arthropod pests *cont.*
 monitoring 8064
 yield losses 8770
 arthropods 6946
 Israel, books 7274
 Paraguay 7880
 attractants
 Eucelatoria bryani 7873
 Glabromicroplitis croceipes 9441
 Bemisia tabaci 6974, 8666, 10859,
 11770
 Arizona 7764
 Cameroon 7879
 India 6533, 8773, 9870
 resistance 2910, 4930
 Sudan 6965
 Turkey 1736
 bibliographies 9115
 Bucculatrix thurberiella 6979
 Arizona 9881
 commodities
 insecticides, residues 8118
 Oxycaenus hyalinipennis 6055
 Derelomorphus subfulvus, Asia 3925
 Diparopsis castanea, Tanzania 750
 Dysdercus albofasciatus 2908
 Argentina 3929
 Dysdercus intermedius 6956
 Dysdercus koenigii 325
 Earias vittella 1729
 India 1733
 varietal susceptibility 9880
 Empoasca, varietal susceptibility 7859
 extracts
 effects
 Anthonomus grandis 5879,
 6969, 8772
 Helicoverpa zea 11768
 Noctuidae 10872
 food preferences, *Anthonomus*
 grandis 7865
 toxicity, *Heliothis virescens* 11170
 fields
 Aphelinus paramali, Israel 1737
 Araneae, Texas 2906, 8777
 beneficial arthropods, Spain 9440
 beneficial insects
 Africa 7265
 India 1733, 7878
 Texas 6978
 USSR 2904
 Bracon, USSR 173
 Braconidae, India 6972
 Campoletis chlorideae, China 8776
 Carabidae, USSR 11772
 Chrysoperla carnea, USSR 274
 Chrysopidae, Tanzania 2909
 Collembola 10598
 Glabromicroplitis croceipes, Missis-
 sippi 2901
 Harmonia axyridis, China 5874
 insects, USSR 2927
 Nabis sinoferus, China 3932
 parasitoids, India 1743
 Phidippus audax, Mississippi 1735
 predatory arthropods
 Mississippi 1734
 Texas 4925
 predatory insects, Brazil 8771
 Trichogramma, China 3126
 Trichogramma brasiliense, India
 6970
 Trichogramma pretiosum, Brazil
 9868
 Zanchius stani, Syria 3245
 Frankliniella occidentalis, Texas 7868
 habitats
 Campoletis sonorensis 6977, 9876
 Glabromicroplitis croceipes 7871
Helicoverpa
 Australia 753
 New South Wales 754
 Queensland 9874
Helicoverpa armigera 596, 2900, 2926,
 4811
 Australia 11164
 China 2907, 3932, 8776
 damage 7872
 economic thresholds 751-752, 1732
 forecasting 4914

Cotton *cont.*
 Helicoverpa armigera *cont.*
 India 5826, 5878, 7878
 Israel 7860
 Thailand 2922, 7881
 USSR 173, 739, 3941
 varietal susceptibility 9920, 10867
 Helicoverpa zea
 Georgia 2932
 Texas 2917
 Heliothis
 Israel 4928
 resistance 1741
 varietal susceptibility 7857
 Heliothis virescens 9876
 Louisiana 8775
 Mississippi 5883, 6968, 8769, 9878
 resistance 1739, 4926
 Texas 2915, 2918, 2921
 USA 4927, 8778
 Hemiptera, Sudan 9885
 Heteroptera, damage 5884
 insect pests 9115
 Brazil 8335
 Cameroon 3939
 control
 biological control 4469
 insecticides 4603, 4932
 damage 4939, 5885-5886, 7867
 economic thresholds 4934, 9873
 forecasting 3938
 Georgia 2924
 India 746, 1725, 3933-3934, 4919,
 4932-4933, 5891, 7877, 10863
 Israel 8781
 Louisiana 10861
 Mexico 742
 Mississippi 1735
 models 4934
 Pakistan 4604, 10864
 Paraguay 8782
 resistance 7854
 South Carolina 5887
 Sudan 7167
 Texas 4939, 5885
 USA 2923
 USSR 2903, 4469
 varietal susceptibility 7167
 yield losses 2911
 insecticides
 degradation 4814
 effects 7265, 10856, 10858, 11775
 residues 2912, 3942, 11766
 toxicity 2044, 6954
 Isoptera, Pakistan 4917
 Lepidoptera
 Australia 7861
 China 3126
 control, biological control 3126
 economic thresholds 9877
 Egypt 10857
 India 747, 1743, 3937, 6970, 6972,
 7853, 7876, 8780, 11451,
 11773
 Ivory Coast 8774
 Pakistan 9879
 resistance 5888
 Liriomyza trifolii 4931
 Lygus lineolaris, resistance 7855
 Maconellicoccus hirsutus 6457
 Noctuidae 2010, 2901, 8488, 11767
 Brazil 9868
 California 9635, 11500
 Israel 2783
 Louisiana 5882
 New South Wales 3942
 resistance 748
 South Carolina 6981
 Spain 9440
 USA 2914
 USSR 741
 varietal susceptibility 7874
 oils, effects, *Callosobruchus chinensis*
 3082
 Oxycaenus hyalinipennis, India 4940
 Pectinophora gossypiella 6963, 9872
 Arizona 4936, 4938
 Brazil 6960
 California 6976
 China 3926
 damage 2920, 3930, 5872

Cotton cont.

- Pectinophora gossypiella* cont.
 Egypt 1730
 India 4941, 6973
 resistance 1738
 USA 6971, 10862
Pectinophora scutigera 6456
 Queensland 5871
Pempherulus affinis, India 4920
 pest control 1375, 5581
 California 7447
 Chad 3735
 conferences 1017
 Europe 5161
 models 5875
 Sudan 6966-6967
 Tanzania 3936
 USSR 740, 2902
 Zimbabwe 1600
 pest resistance
 conferences 1018
 genetic engineering 7858
Polyphagotarsonemus latus, Brazil
 744, 6957
Psallus seriatus, Texas 4925, 5890
 ratooning, reviews 1726
Scirtothrips dorsalis, Pakistan 5889
Spodoptera exempta, Kenya 409
Spodoptera exigua 7864, 9643
Spodoptera frugiperda, Mississippi
 9884
Spodoptera littoralis
 Egypt 2905
 interactions 8711
Spodoptera litura 11501
Syllepte derogata
 Pakistan 755
 resistance 1740
Tetranychus 5880
 resistance 4929
 varietal susceptibility 9883
Tetranychus cinnabarinus 1293, 1742
 China 9866
 resistance 4922
Tetranychus macfarlanei, India 5877
Tetranychus pacificus 3943
Tetranychus turkestanii, yield losses
 5876
Tetranychus urticae
 Brazil 745, 3931
 California 4935
 resistance 5873
 USSR 274
 Thripidae
 Louisiana 3940
 Texas 9524
 Thysanoptera, damage 2919
Urentius hystricellus, Pakistan 10865
Cottonseed oil
 control, *Bemisia tabaci* 7764
 toxicity, lettuce 7764
Cottonwood (see *Populus deltoides*)
Cottus bairdi, prey, *Anabrus simplex* 7500
Coumaphos (O-(3-chloro-4-methyl-2-oxo-2H-1-benzopyran-7-yl) O,O-diethyl phosphorothioate)
 control
 Acari 1252
Varroa jacobsoni 1245, 1248, 3536
 effects, *Apis mellifera* 1260
Coumarins, antifeedants, *Spodoptera litura*
 10162
Counter (see Terbufos)
Cover crops
 control, rice, insect pests 6722
 effects
Delia platura 9801
 predatory arthropods 8593
Cowpea (aphid-borne) mosaic potyvirus,
 vectors, Aphididae 10795
Cowpea mosaic comovirus, vectors,
Ootheca mutabilis 5810
Cowpea mottle virus, vectors, *Ootheca*
mutabilis 5810, 6456
Cowpea severe mosaic comovirus
 vectors
Ceratomyxa arcuata 10796
 Chrysomelidae 11716
 Coleoptera 5103
Cowpeas (see *Vigna unguiculata*)

Crabs

- India 12021
 insecticides, residues 8108
Crambinae
 biology, environmental factors 926
 distribution, Bulgaria 155
 Italy 3406
 monitoring, traps 926, 3406
 UK 926
Cranberries
Chrysoteuchia topiaria, British Colum-
 bia 9658
Coptodisca negligens, damage 9657
 insecticides, residues 6787
Lepesoma bakeri, Oregon 10678
Craspedolepta, *Ceanothus velutinus*, Ore-
 gon 1865
Crataegus
Althaeus hibisci 3607
Anthonomus quadrigibbus, North
 America 8201
Rhagoletis pomonella 6460
 America 8597
 Massachusetts 6805
 USA 5727, 5734
Crataegus coccinea (see *C. pedicellata*)
Crataegus douglasii, *Rhagoletis*
pomonella, Utah 4733, 7738, 8626
Crataegus laevigata
Archips rosanus, Italy 556
 arthropod pests
 China 1856
 control, integrated control 1856
Leptophyes punctatissima, UK 9984
Stigmella crataegella, Poland 3431
Crataegus mollis
Althaeus folkertsi 3607
Rhagoletis pomonella 4741
 Illinois 543
 Massachusetts 3009, 5013
Crataegus monogyna
 Lepidoptera 785
Nymphalis polychloros, Spain 1824
Phagocarpus purmundus, Italy 11516
Stigmella crataegella, Poland 3431
Crataegus oxyacantha (see *C. laevigata*)
Crataegus oxyacanthoides, Lepidoptera
 785
Crataegus pedicellata, *Odontota dorsalis*,
 damage 10985
Crataegus rivularis
Rhagoletis, Colorado 4731
Rhagoletis pomonella, Colorado 4755
Crataegus viridis, *Rhagoletis pomonella*
 548
Cratichneumon culex
 hosts, *Operophtera brumata* 2722
 UK 2722
Cratichneumon fabricator
 hosts, *Panolis flammea* 7079
Pinus, forests, German Federal Repub-
 lic 7079
Cratichneumon viator
 biology 7505
 hosts, Lepidoptera 7505
 Spain 7505
Crayfish, insecticides, effects 9083
Cretonotos transiens, alkaloids, uptake
 1169
Cremastobombycia solidaginis
 New England 1330
 parasitoids 1330
Crematogaster
Avicennia marina, Queensland 11358
 biology, behaviour 8859
 coconuts, plantations, Sri Lanka 3757
 forest trees, Peru 8859
 hosts, *Opisina arenosella* 3757
 physiology, pheromones 6301
 predators 11358
 taxonomy 3481
 USA 3481
Crematogaster brevispinosa
Planococcus citri, interactions 1754
Schomburgkia tibicinis, Mexico 1754
Crematogaster clara
 taxonomy
 synonyms
 of *Crematogaster laeviuscula*
 3481
 of *Crematogaster pilosa* 3481

Crematogaster dohrni

- control, insecticides 3954
Saissetia coffeae, interactions 3954
 tea, Sri Lanka 3954
Crematogaster laeviuscula, taxonomy,
 synonyms, *Crematogaster clara* 3481
Crematogaster lineolata
 monitoring, traps 8324
 taxonomy, synonyms, *Crematogaster*
punctulata 3481
 Texas 8324
Crematogaster pilosa, taxonomy, syno-
 nyms, *Crematogaster clara* 3481
Crematogaster punctulata, taxonomy,
 synonyms, of *Crematogaster lineolata*
 3481
Crematogaster scutellaris
 France 11042
Reticulitermes, interactions 11042
Creontiades pallidus, sorghum, Africa
 3717
Creosote bush (see *Larrea tridentata*)
Cribroecanium andersoni
 Citrus, South Africa 6827
 parasitoids 6827
Cricket paralysis virus, hosts, *Bactrocera*
oleae 889
Crickets (see Grylloidea)
Cricotopus trifasciatus, *Phragmites aus-*
tralis, Japan 1418
Crimson clover (see *Trifolium incarnatum*)
Crinum, *Scaptomyza exilis*, Madagascar
 11703
Crioceris orientalis, asparagus, Japan
 5777
Crioceris quatuordecimpunctata, asparagus,
 Japan 5777
Critogaster
 biology, behaviour 1572
 hosts, *Tetrapus* 1572
Crociodolomia binotalis
Brassica, Singapore 7775
 cabbages
 India 1619, 2805
 Indonesia 11695
 control, insecticides 2805, 11695
Crocodylus niloticus, insecticides, residues
 7202
Croesia curvalana
 blueberries, New Brunswick 2707
 pheromones 2707
Croneton (see Ethiofencarb)
Crooknecks (see *Cucurbita maxima*;
Cucurbita moschata; *Cucurbita*
pepo)
Crop husbandry, Irish Republic, reports
 9138
Crop production, economics, models 5547
Crop protection (see Plant protection)
Cropotex (see Flubenzimine)
Crops
Anastrepha suspensa, monitoring, traps
 5548
 Aphididae
 damage 7278
 Spain 5549
Aphis gossypii, Japan 1374
 arthropod pests
 Netherlands, reports 7297
 Romania 4570, 5174
 yield losses 5174
 models 924
 arthropods, evolution 5546
Bemisia tabaci
 Dominican Republic 5170
 India 4088
 Cleoninae, Iran 6477
Dialeurodes, monitoring, traps 5548
Diaphania hyalinata, monitoring, traps
 5548
Edessa rufomarginata, Argentina 321
Empoasca, monitoring, traps 5548
Frankliniella, monitoring, traps 5548
 insect pests
 Brazil 6567
 books 7259
 Italy 2555
 Korea Republic 8297
 monitoring 4238
 predators 6567

Crops *cont.*
insects
pollutants, effects 8412
USSR 8412
Isoptera, Kenya 5513
Lepidoptera, USSR 916
Liriomyza bryoniae, Japan 4839
Maladera matrida, Israel 2691
mites
Egypt 324
Italy 2554
Mocis, monitoring, traps 5548
pest control 6101
Africa 900
books 999
conferences 11266
Florida 12018
Romania 4572-4573
USA 11115-11116
USSR 8992
Western Europe 12036
pest resistance 7551
genetic engineering 6131
UK 8184
pesticides, effects 9487
pests, Romania, books 11249
research
conferences 11266
Italy, reports 10220
Scarabaeidae, India 6501
tropics, reports 5246
yield losses 3141
assessment 3141
models 7453
Crossocerus annulipes
ecology 1329
urban areas, Poland 1329, 2441
Crossocerus elongatulus
ecology 1329
urban areas, Poland 1329, 2441
Crossocerus wesmaeli
ecology 1329
urban areas, Poland 1329
Crossopalpus
groundnuts, fields, India 667
prey, Cicadellidae 667
Crossotarsus externedentatus
distribution, maps 6457
food plants 6457
Crotalaria, habitats, beneficial arthropods,
Puerto Rico 1527
Crotalaria anagyroides
Etiella zinckenella, Puerto Rico 1526
habitats, *Lemnia kaszabi*, Papua New
Guinea 10868
Crotalaria incana, *Etiella zinckenella*,
Puerto Rico 1526
Crotalaria juncea (see *Sunn hemp*)
Crotalaria mucronata, *Utetheisa ornatrix*,
USA 7560
Crotalaria pallida, *Etiella zinckenella*,
Puerto Rico 1526-1527
Crotalaria spectabilis
Anticarsia gemmatalis 11683
Utetheisa ornatrix, USA 7560
Crotalaria striata (see *Crotalaria*
mucronata)
Crotalaria zanzibarica, *Etiella zinck-*
enella, Puerto Rico 1526
Croton, *Heliothrips*, Brazil 4521
Croton aromaticus, extracts, toxicity,
Aphis craccivora 9498
Croton billbergianus, *Thisbe irenea*, Pan-
ama 2977
Croton capitatus, *Psallus seriatus*, Texas
7863
Croton lacciferus, extracts, toxicity, *Aphis*
craccivora 9498
Croton sparsiflorus
Chrysocoris purpureus, India 2207
extracts, toxicity, *Corcyra cephalonica*
2014
Crotonia ardala
forests, Queensland 1879
taxonomy, new species 1879
Crotonia borbora
forests, Queensland 1879
taxonomy, new species 1879
Crotonia capistrata
forests, Queensland 1879
taxonomy, new species 1879
Cruciferae
Argyrogramma signata 6458
Ceutorhynchus constrictus 7774
Delia 6460
Entomoscelis americana, North
America 9744
fields, Tachinidae, Japan 3845
habitats, *Cotesia glomerata*, Japan
9760
Phyllotreta nemorum, Denmark 602
Pieris, Japan 3845, 9760
Plutella xylostella 1612
China 3844, 9767
Taiwan 4818
Crustacea
biology 7268
insecticides, effects 2039, 3176-3178,
7194
Libya 3407
moulting hormones, immunoassays
2380
pathogens 8980
physiology, senses 10301
Cryphalus abietis
monitoring, traps 801
Pinus sylvestris, Sweden 801
Cryphalus dipterocarpi
Dipterocarpus pilosus 804
taxonomy, new species 804
Cryphalus felis
taxonomy, new species 804
Vitis 804
Cryphalus fulmineus
Alnus nitida 804
taxonomy, new species 804
Cryphonectria parasitica, Acari, interac-
tions 11632
Cryptoblabes gnidiella
avocados, Israel 10719
control, biological control 10719
parasitoids 4774
physiology, kairomones 4774
Cryptocephalus
India 9188
morphology, male genitalia 9188
taxonomy 9188
Cryptocephalus cordiger, forest trees,
France 2348
Cryptochetum iceryae
biology 8640
hosts, *Icerya purchasi* 5942, 8640
Pittosporum tobira, habitats, California
8640
South Australia 5942
Cryptococcus albidus var. *albidus*,
attractants, *Drosophila* 128
Cryptococcus fagisuga
ecology 4984
population dynamics 1847
Fagus 4984
Ontario 4022
Fagus grandifolia, Ontario 5927
Fagus sylvatica, German Federal
Republic 1847
fungi, interactions 4022
plant pathogens 4984
interactions 5927
Cryptognatha
insecticides, effects 9715
oranges, orchards, Brazil 9715
prey, *Selenaspis articulatus* 9715
Cryptolaemus montrouzieri
control
Maconellicoccus hirsutus 8570
Nipaecoccus filamentosus 3804
Pseudococcidae 906
insecticides, toxicity 7757
orchards, Queensland 7747
prey, *Planococcus citri* 7747
rearing techniques 8570
Cryptolestes
barley
commodities 11029
Minnesota 11880
cereal grains 4056
control, trapping 4056
monitoring, traps 11029
stored products, German Federal
Republic 3049
Cryptolestes capensis, distribution, New
Zealand 4384
Cryptolestes cornutus
Capsicum, commodities 6044
taxonomy, new species 6044
Thailand 6044
USA 6044
Cryptolestes dybasi
distribution, South Carolina 3408
grain stores 3408
monitoring, traps 3408
Cryptolestes ferrugineus
attractants 853
biology
behaviour 7103
environmental factors 35, 5098,
10026
spatial distribution 6041
cereal grains 5098
South Carolina 6037
UK 7103
ecology, population dynamics 3052,
10035
forecasting 10035
insecticides, resistance 8927
kairomones 7083
maize, commodities, Georgia 3052
monitoring, traps 5098
parasitoids 7083
pathogens 6037
pheromones 4056
tobacco, commodities, Taiwan 853
wheat
commodities 35, 10035
Kansas 6041
Cryptolestes pusillus
cereal grains 11951
ecology, population dynamics 11951
insecticides, toxicity 11030
maize, commodities 11030
parasitoids 7083
pheromones 4056
physiology, cuticle 3297
plant extracts, toxicity 4066
wheat, commodities 4066
Cryptolestes turcicus
biology, environmental factors 35
pheromones 4056
wheat, commodities 35
Cryptomeria japonica
plantations, soil arthropods, Japan 7030
Semanotus japonicus, Japan 9943
Cryptomyzus alboapicalis
biology, behaviour 8562
Lamium, Netherlands 8562
Cryptomyzus galeopsidis
biology, behaviour 8562
currants, Netherlands 8562
Cryptomyzus ribis
biology, behaviour 8562
currants, Netherlands 8562
Cryptophlebia cortesi
Acacia macracantha, Chile 1038
anatomy 1038
taxonomy, new species 1038
Cryptophlebia leucotreta
biology
behaviour 4788, 8647
reviews 3755
Citrus, South Africa 3814, 5752
control, integrated control 5752
cotton, Ivory Coast 8774
fruits, Africa 3755
maize, Ivory Coast 10594
monitoring, traps 3814, 8774
morphology, larvae 10594
oranges, South Africa 4788, 8647
parasitoids 3755, 8647
stone fruits, South Africa 9675
taxonomy 10594
Cryptophlebia saileri
anatomy 1038
Prosopis tamarugo, Chile 1038
taxonomy, new species 1038
Cryptopygus bipunctatus, urban areas 1190
Cryptorhynchus lapathi
control 5966
Populus
Italy 5966
Yugoslavia 11792
Cryptostigma
Australia 2138
biogeography 2138

Cryptostigma *cont.*

morphology 2138
taxonomy 2138

Cryptostigma inquilina, taxonomy, synonyms, *Cryptostigma secretus* 2138**Cryptostigma secretus**, taxonomy, synonyms, of *Cryptostigma inquilina* 2138**Cryptostigmata**

biology 5029

behaviour 5928

environmental factors 5744, 7030

Brazil 6266

Chile 2337

Citrus, orchards, USSR 3813

conifers, USA 10015

Cryptomeria japonica, plantations,

Japan 7030

distribution 6237

Turkey 3404-3405

ecology

habitats 11011

population dynamics 2337, 7034

fertilizers, effects 3813

forests

Belgium 11011

Greece 7034

Japan 5928, 10016

Korea Republic 7427

morphology, mouthparts 5928

Neotropical Region, books 10179

Nothofagus pumilio, forests, Chile

5029

Oriental Region, catalogues 6237

pastures, Spain 7678

pesticides, effects 1731

predators 7030

Quercus macrocarpa, Kansas 10015

soil

Brazil 1859

Egypt 1731

Georgia 10353

New Mexico 9323

Spain 4399

taxonomy 2129, 6237, 6266, 9143,

10179

tillage, effects 10353

USA 9143

Ziziphus spina-christi, Egypt 5744

Cryptotermes brevis

biology, behaviour 3576

buildings, Florida 3576

Cryptozona belangiri, food plants, India

3834

Cryptozona semirugata

food plants, India 10496

plant pathogens, transmission 10496

Crypturaphis grassii

Alnus cordata, Italy 11802

biology 11802

natural enemies 11802

Cryptus

distribution, Canary Islands 6581

taxonomy 6581

Cryptus introita

hosts, *Spodoptera frugiperda* 7608

maize, fields, Georgia 7608

CSB, residues, lakes 5217**Ctenacaridae**

ecology 9330

soil, Mexico 9330

Ctenopharyngodon idellus, control, rice,

insect pests 7703

Ctenopseustis inana, biology, development

8546

Ctenopseustis obliquana

New Zealand 7351

pheromones 7351

physiology, sense organs 7351

rearing techniques 4421

Ctenopseustis ropeana

New Zealand 7351

pheromones 7351

physiology, sense organs 7351

Cuba

Aceria guerreronis, pathogens 498

Anastrepha suspensa, predators 8356

Apate monachus 1580

Bemisia tabaci 10790

biological control 5160

Ceratomya ruficornis 4849

Cuba *cont.*

Chrysomphalus aonidum, parasitoids
9724

Citrus

Hemiptera 8642

parasitoids 9712

Coccidae, parasitoids 9714

coffee, Hemiptera 10878

Cosmopolites sordidus, predators 2777

crops, insect pests 5548

Cycloneda limbifer 1579

Cycloneda sanguinea 9721

Diatraea 8451

Diatraea saccharalis 9267

Dioryctria horneana 4978

Drosophila 6475

Formicidae 10880

Galendromus longipilus 9722

grapefruits, mites 575

Heliothis virescens 756, 10898

Lepidoptera 8292

Lissorhoptrus brevirostris 8507

Mollusca, research 5532

Neohydronomus 7559

Oebalus insularis 5638

Oligonychus grypus 10545

predators 10544

Perileucoptera coffeella 4952

Phaseolus vulgaris, insect pests 634,

4850, 10791

Polyphagotarsonemus latus 9725

Selenaspidus articulatus 10729

Sogatodes orizicola 637

Spartocera batatas 1699

Spodoptera frugiperda, parasitoids 428

Systena basalis 4376

tobacco, insect pests 1746

Typhlodromus elatus 9946

Unaspis citri 9713, 10724

parasitoids 9452

Xyleborus lecontei 9897

Xylosandrus compactus 10879

Cubitermes

Afroheterozercon ancoratus, interac-

tions 11479

food plants, Kenya 5513

Zaire 11479

Cubitermes curtatus

ecology, population dynamics 2522

grasslands, Ghana 2522

Cucujus clavipes

cold resistance 821

forest trees, North America 821

Cucullia, Spain 4397**Cucullia umbratica**, Spain 4397**Cucullia verbasci**, taxonomy 1194**Cucumber mosaic cucumovirus**

vectors

Aphididae 6853, 9846, 10841-

10842, 10852

Aphis gossypii 7784

Myzus persicae 876, 1745, 5859

Cucumber vein yellowing virus, vectors,

Bemisia tabaci 5797

Cucumbers (*Cucumis sativus*)

Anasa tristis 11702

Oklahoma 10781

Aphis gossypii 7784

Japan 1374, 7761

arthropod pests

German Democratic Republic 621,

3865, 7550, 11113

Norway 10750

Switzerland 5799

arthropods, Austria 2786

Aulacophora foveicollis, food prefer-

ences 1630

Bactrocera cucurbitae 10777

Bemisia tabaci 5797

Turkey 1736

Coridius janus 11704

Diaphania indica, China 5782

Diaphania nitidalis, South Carolina

6877

Epilachna dodecastigma, Indonesia

2553

fields

Micraspis discolor, India 1307

predatory arthropods, Iraq 4836

Frankliniella occidentalis 10776

Denmark 3864

Cucumbers *cont.*

Frankliniella occidentalis *cont.*

Finland 6123

greenhouses, *Phytoseiulus persimilis*,

Italy 7785

insecticides, toxicity 8688

Liriomyza trifolii, Hungary 11782

pest control, Norway 6876

pollen, food, *Orius sauteri* 3532

Tetranychus, varietal susceptibility

6856

Tetranychus urticae

Italy 7785

Scandinavia 6170

Thrips tabaci 6121

Denmark 622

Finland 5798

USSR 11706

Thysanoptera

British Columbia 3863

Czechoslovakia 7786

German Federal Republic 3836

Netherlands 3862

UK 4837

Trialeurodes vaporariorum 4838

USSR 587, 624, 2787, 5775, 11687

Cucumis, *Trialeurodes vaporariorum*,

resistance 10778

Cucumis dipsaceus, *Bactrocera cucurbitae*,

Hawaii 11615

Cucumis ficifolius, *Trialeurodes vaporari-*

orum, resistance 10778

Cucumis melo var. *cantaloupensis* (see

Melons)

Cucumis melo var. *inodorus* (see Melons)

Cucumis sativus (see Cucumbers)

Cucurbita foetidissima, extracts,

attractants, *Diabrotica virgifera*

10595

Cucurbita maxima (see also courgettes,

marrows, pumpkins and squashes)

Aulacophora foveicollis, food prefer-

ences 1630

Cucurbita moschata (see also courgettes,

marrows, pumpkins and squashes)

Diaphania indica, China 5782

Cucurbita pepo (see also courgettes, mar-

rows, pumpkins and squashes)

Anasa tristis, Oklahoma 10781

Bemisia tabaci 5797

Cucurbita pepo var. *melo* *pepo*

insect pests, Connecticut 10769

insects, pollination 8691, 9780

pollinators, Brazil 8691

Cucurbitaceae

Anastrepha grandis, America 2141

Aphididae, India 9740

Aphis gossypii, Japan 9741

arthropod pests

France 10752

Sardinia 11620

Bactrocera cucurbitae, Mauritius 9727

Bemisia tabaci 5797

Chromatomyia horticola 6456

Coccus hesperidum 4790

extracts, attractants, Chrysomelidae

6866

fields, Hymenoptera, India 9740

kairomones 6866

Scaptomyza mateolata, Mauritius

11703

Thrips palmi, Martinique 3838

Cucurbitacins, effects, Chrysomelidae 6866

Cue-lure (4-[4-(acetyloxy)phenyl]-2-buta-

none)

attractants

Bactrocera cucurbitae 4162, 6133,

9727

Tephritidae 7726

Cultural control

Aphididae 1695

Brachyc

Cultural control cont.

Ostrinia nubilalis 6713
peaches, Cicadellidae 2750
Pemphigus populivenerae 8732
Phoracantha semipunctata 8833
potatoes, insect pests 703
Pyrilla perpusilla 6689
Ricania sublimbata 1577
Tortricidae 8617
Trialeurodes vaporariorum 587
wheat, arthropod pests 2616
burning
 Apate monachus 1580
 Cercopidae 6752
 Coniesta ignefusalis 9576
 Dendroctonus ponderosae 8867
 pomegranates, insect pests 3822
 snails 369
companion crops, *Aphis fabae* 683
composts, soil, arthropod pests 9026
cover crops
 arthropods 7614
 rice, insect pests 6722
detasselling, *Ostrinia furnacalis* 8495
drainage, *Lissorhoptrus oryzophilus* 11565
felling, *Dendroctonus frontalis* 11825
fertilizers
 Bothynoderes punctiventris 2858
 Pectinophora gossypiella 6973
 Sogatella furcifera 2656
flooding, *Nilaparvata lugens* 1473
grazing, Cercopidae 4691
harrowing, Cercopidae 6752
harvesting
 Cercopidae 6752
 Ostrinia nubilalis 10600
harvesting date, cereals, insect pests 4614
intercropping
 Aleyrodidae 711, 11747
 Aphis gossypii 5874
 Brevicoryne brassicae 6863
 cabbages, insect pests 11696
 Cicer arietinum, insect pests 669, 5833
 Curculionidae 8654
 Empoasca fabae 9787
 field crops, insect pests 1440
 maize, insect pests 4812
 Noctuidae 3684
 Ostrinia nubilalis 4642
 peas, insect pests 643, 2825
 Phthorimaea operculella 1688
 soyabeans, insect pests 1657
 tomatoes, insect pests 1712
irrigation
 Bemisia tabaci 6965
 Cicer arietinum, insect pests 669
 peas, insect pests 645, 2825
 Pectinophora gossypiella 6973
 Phthorimaea operculella 11744
 Pomacea canaliculata 10624
plant density
 Aradus cinnamomeus 7905
 Atherigona soccata 1495
 Dalbulus maidis 8493
 insect pests 7648
planting date
 Coccotrypes fallax 9927
 Cochylis hospes 4913
 Elasmopalpus lignosellus 10810
 Lissorhoptrus brevirostris 8507
 Mayetiola destructor 10564
 Nephotettix 9581
 Ophiomyia phaseoli 639
 potatoes, insect pests 10824
 rice, insect pests 3687
 soyabeans, insect pests 4854
 Suilla lurida 7831
 tobacco, insect pests 1746
plastic film, *Frankliniella intonsa* 7796
plastic tunnels, melons, insect pests 8689
ploughing
 Chilo suppressalis 434
 Loxostege sticticalis 2552
 Pemphigus fuscicornis 7814
 Zabrus tenebrioides 6703
polyethylene film, *Liriomyza trifolii* 8759

Cultural control cont.

roguing, potatoes, insect pests 10824
rolling, Tipulidae 7674
rotations
 Atomaria linearis 1676
 Bothynoderes punctiventris 2858
 cereals, insect pests 4614
 Leptinotarsa decemlineata 8745
sanitation, *Otiorynchus smreczynskii* 5070
solar radiation, Nitidulidae 6045
sowing date
 Busseola fusca 412
 cereals, insect pests 4614
 Helicoverpa armigera 7797
 Lipaphis erysimi 5787
 Myzus persicae 10528
 Oscinella frit 6757
 Vigna, insect pests 1652
 Zabrus tenebrioides 6703
staking, *Piper nigrum*, insect pests 10530
tillage
 arthropods 7614
 crops, insect pests 402
 Elasmopalpus lignosellus 10810
 Helicoverpa zea 5168
 Ostrinia nubilalis 11539
 Phaseolus vulgaris, insect pests 1639
transplanting, *Sogatella furcifera* 2656
vegetation management, almonds, insect pests 523
weed control
 Agrotis ipsilon 10592
 Macrostelus purpurata 1605
 potatoes, insect pests 7817
weeding
 Chromoderus affinis 5835
 Cosmopolites sordidus 583
 Hydraecia mongoliensis 5858
 Noctuidae 8663
 Orthezia praelonga 4954
 Plutella xylostella 4825
 Sarasinula plebeia 640
 snails 369
Cultural heritage, pest control, India 11873
Cultural methods
 effects
 Chilo suppressalis 3694
 Collembola 10598
 Pissodes strobi 10935
 Pseudococcus comstocki 8619
 Rhyacionia 10936
 soyabeans, insects 10803
 vineyards, arthropods 5714
Culture techniques 1922
 Bacillus subtilis 11063
 Bacillus thuringiensis 291, 3093, 4097, 4133, 8010, 10086, 11909
 Bacillus thuringiensis subsp. *kurstaki* 7128
 Beauveria bassiana 5106, 5115, 7916, 8984
 Cordyceps 5108
 Cystosporogenes operophterae 6061
 entomogenous fungi 895, 4239, 4795, 11925
 entomopathogens 6229
 Entomophaga aulicae 4111
 Entomophaga maimaiga 1946, 11929
 entomophilic nematodes 8024
 Entomophthorales 12027
 Erynia crustosa 5971
 Heterorhabditis 1941
 insect viruses 7923
 insects, cell lines 10373
 Neoaplectana 1922
 Nomuraea rileyi 1945
 Nosema bombycis 7145
 Nosema furnacalis 4108
 nuclear polyhedrosis viruses 6604, 7133, 8798, 10061
 Paecilomyces fumosoroseus 3098
 Steinernema kushidai 11069
 Vairimorpha necatrix 7146
Cuminum cyminum
 arthropod pests
 biology 6233
 control 6233
 damage 6233

Cuminum cyminum cont.

arthropod pests cont.
 natural enemies 6233
 commodities, *Tribolium castaneum*, India 7969
 fields, Coccinellidae, India 10529, 11524
 Helicoverpa armigera, India 348
 insecticides, residues 7570
 Myzus persicae
 India 10528-10529, 11524
 yield losses 347
Cunaxa
 prey, tea, mites 5902
 tea, plantations, India 5902
Cunaxidae
 biology 575
 grapefruits, orchards, Cuba 575
 prey, mites 575
Cunaxoides biscutum
 biology 1331
 USSR 1331
Cunctochrysa jubingensis, distribution, India 1338
Cunninghamia lanceolata, *Fiorinia cunningghamiana*, China 3238
Cupiennius
 ecology, population dynamics 4524-4525
 habitats 4524
Cupressaceae
 Haematoloma dorsatum, damage 5968
 Lymantria dispar 8866
Cupressus
 Haematoloma dorsatum, damage 5968
 Uracanthus cupressianus, South Australia 5983
Cupressus lusitanica, *Macrotermes bellicosus*, damage 5523
Cupressus macnabiana
 forests, *Parechthodryinus cylococculi*, California 1861
 Xylococcus macrocarpa, California 1861
Cupressus macrocarpa var. *lambertiana*, *Diadoxus*, Australia 4007
Cupressus sempervirens
 Cinara cupressi, Jordan 1828
 insect pests, Morocco 5984
 Uracanthus cupressianus, South Australia 5983
Curacao, *Microlarinus lypiformis* 8429
Curaterr (see Carbofuran)
Curcubitaceae, arthropod pests, Sicily 11655
Curcularia pallescens (see *Cochliobolus pallescens*)
Curculio
 control, hot water treatment 1806
 Quercus petraea, insects, France 5988
 Quercus virginiana 1806
Curculio dentipes, physiology, chemical composition 104
Curculio elephas, parasitoids 9405
Curculio flavipes, taxonomy, synonyms, of *Apion fulvipes* 15
Curculio nucum
 biology 3773
 control 3773
 hazelnuts, USSR 3773
Curculio vicetinus
 Acer pseudoplatanus, Italy 9952
 taxonomy, new genus 9952
Curculio villosus group, taxonomy 9952
Curculionidae
 attractants 822
 bananas, Ivory Coast 8654
 biogeography 8847, 9343, 11387
 checklists, America 9
 cocoa, Brazil 759
 coniferous forests, Ontario 822
 conifers
 Bhutan 8847
 Morocco 5984
 Ontario 8862
 control
 cultural control 8654
 insecticides 6865, 10673
 microbial pesticides 5164
 conferences 4239

Curculionidae cont.

- distribution
 German Democratic Republic 3433
 North Dakota 11393
 Poland 6465
- ecology
 ecosystems 4694
 water relations 2330
- food plants, Australia 2317
 forest trees, Solomon Islands 838
 forests, German Federal Republic 2997
 fruits, USSR 496
 grasslands, UK 4694
 Italy 9343, 11387
 Kenya 2330
 keys 1044
 meadows, German Federal Republic 468
 monitoring, traps 822, 8862
 Myrtaceae, Western Australia 11778
 North America 3557, 6467
 parasitoids 3557
 pathogens 4239
 plant pathogens, transmission 8006
 rape, USSR 6865
 sodium pentachlorophenol, toxicity 2997
 South Africa 2133
 strawberries, Belgium 10673
 sugarbeet, USSR 674
 taxonomy 9, 2133, 3246
Trifolium repens
 German Federal Republic 468
 UK 5692
 varietal susceptibility 7701
Verticillidiella wagneri, transmission 5064
- Curculionidea**
 biogeography 9343, 11387
 Italy 9343, 11387
 morphology 8213
 phylogeny 8213
- Curcuma longa** (see Turmeric)
- Curetinae**
 morphology, legs 1049
 phylogeny 1049
- Curinus**
 biology 4710
 prey, *Diaspis echinocacti* 4710
- Curinus coeruleus**
 control, *Heteropsylla cubana* 7056
 India 7056
- Currants**
 arthropod pests, German Democratic Republic 10670
 insect pests, Finland 9486
- Curtara bermudensis**
Conocarpus erectus, Bermuda 11835
 taxonomy, new species 11835
- Cushaws** (see Cucurbita)
- Cutworms** (see Noctuidae)
- Cyamopsis psoraloides**, *Ophiomyia centrosema* 2833
- Cyamopsis tetragonoloba**, *Spilosoma obliqua*, India 1647
- Cyampophila dicora**
Astragalus adscendens, Iran 2529
 biology 2529
 parasitoids 2529
- Cyaneus angustus**
 ecology, population dynamics 3052
 maize, commodities, Georgia 3052
- Cyannocitta cristata**, prey, *Jadera haematoloma* 5950
- Cyanobacteria**, insecticides, effects 6820
- Cyanocorax morio**, *Eciton burchelli*, interactions 7486
- α-Cyanocyclopropane carboxylate**, control, *Spodoptera exigua* 3913
- Cyanophos** (O-(4-cyanophenyl) O,O-dimethyl phosphorothioate)
 control, *Pectinophora gossypiella* 1730
 resistance, *Plutella xylostella* 10106
- Cyathea**
 habitats, *Centrodora scolypopae*, New Zealand 8559
Scolypopa australis, New Zealand 8559
- Cyathocline lyrata**, extracts, repellents, insects 5578

Cybocephalus

- Libya 1545
 prey, dates, insect pests 1545
- Cybocephalus aurantii**, prey, *Citrus*, arthropod pests 6833
- Cybocephalus gibbulus**
 biology 6833
Citrus, orchards, Japan 6833
 control, *Quadraspidiotus perniciosus* 11433
- Cybocephalus nipponicus**
 China 4494
Citrus, orchards, China 7749
 prey
Aulacaspis rosae 4494
Parlatoria zizyphi 7749
- Cybolt** (see Flucythrinate)
- Cycas taiwaniana**, *Chilades peripatria*, Taiwan 2936
- Cychnus**
 China 5257
 taxonomy 5257
- Cychnus caraboides**
Picea, forests, USSR 4537
 prey, invertebrates 4537
- Cyclochila australasiae**, physiology, sound production 9234
- Cyclodiene insecticides**, resistance, *Diabrotica virgifera* 11161
- Cycloneda limbifer**
 biology 1579
Citrus, Cuba 1579
 entomogenous fungi, effects 2516
 prey, *Aphis fabae* 2516
- Cycloneda munda**, parasitoids 6530
- Cycloneda sanguinea**
 biology, phenology 3656, 9827
Cajanus cajan, fields, Puerto Rico 3886
 insecticides, toxicity 9453, 9721
 oranges, orchards, Cuba 9721
 pesticides, toxicity 10462
 potatoes, fields, Brazil 9827
 prey
Empoasca 3886
 potatoes, insect pests 9827
 wheat, fields, Brazil 3656
- Cycloneda zischkai**
 biology 11429
 Brazil 11429
 diets 11429
 prey, insects 11429
 rearing techniques 11429
- Cyclops**, insect growth regulators, effects 2755
- Cydia**
 parasitoids 1530
Vicia sativa, UK 1530
- Cydia caryana**
 monitoring, traps 7719
 pecans, USA 7719
 pheromones 7719
- Cydia critica**
Cajanus cajan, India 2836, 5816
 parasitoids 2836
- Cydia dimorpha**
 biology 3802
 food plants, Japan 3802
- Cydia funebrana**
 apricots, India 11654
 attractants 5740, 6136
 biology 530
 control 530, 561, 11654
 insecticides 5740
 mating disruption 2749
 Czechoslovakia 6136
 fruit trees, USSR 2728
 fruits, USSR 530
 growth regulators, effects 3777
 monitoring, traps 5740, 6136
 parasitoids 2728
 plums
 China 5740
 USSR 561, 2749
- Cydia hemidoxa**
 biology 3637
 control 3637, 9508
Piper nigrum, India 3637, 9508
- Cydia janthinana**
 fruits, Switzerland 7727
 pheromones 7727
 taxonomy 5737

Cydia leucostoma

- parasitoids 2935, 6988
 tea, India 2935, 6988
- Cydia lobarzewskii**
 control, insecticides 8581
 fruit trees, Europe 5737
 fruits, Switzerland 7727, 8581
 pheromones 7727
 plums, Europe 5737
 taxonomy, synonyms, *Cydia prunivorana* 5737
- Cydia medicaginis**, distribution, UK 8300
- Cydia miscitata**, *Pinus ponderosa*, USA 5991
- Cydia molesta**
 apples 7734
 attractants 5740, 9697
 biology 530, 5729
 behaviour 1077
 phenology 4729
 cold storage, effects 8962
 control 530, 4729, 5729
 biological control 535
 integrated control 8628
 mating disruption 9697
 diets 7734, 11407
 fruit trees
 China 535, 5729
 USSR 4729
 fruits, USSR 530
 marking 11403
 parasitoids 4767
 peaches
 California 8633
 Chile 4767
 France 9697
 Italy 8628
 pheromones 2226, 7734
 physiology, pheromones 1077
 rearing techniques 11407
 stone fruits, commodities 8962
- Cydia nigricana**
 attractants 3876, 7798
 control, biological control 649
 peas
 Czechoslovakia 3876, 7798
 Finland 9486
 USSR 649
 pheromones 7798
Vicia sativa, UK 1529
- Cydia piperana**
Pinus ponderosa
 Arizona 1823
 USA 5991
- Cydia pomonella**
 apples 3971, 4743-4744, 4758, 11647, 11651
 California 9680
 commodities 1901, 11894
 Czechoslovakia 3788, 10710, 11648
 damage 8584
 Finland 9486
 German Democratic Republic 2740
 Iran 554
 Massachusetts 8617
 North America 8605
 Poland 8582-8583, 8610
 Quebec 8612
 South Australia 4738
 Switzerland 2742, 3798, 4757, 8613
 USSR 544-547, 558, 2730, 2743
 varietal susceptibility 1564
 Washington 555, 9684
 attractants 6136, 11651
 biology 530, 3971, 8547
 behaviour 4758, 6427, 9684, 10710
 diapause 11363
 environmental factors 3788, 11648
 phenology 492, 554, 5721
 cold resistance 4743
 cold storage, effects 8962
 control 530, 534, 544-545, 558
 botanical insecticides 1553
 cold storage 11894
 fumigants 1901, 8965, 11052
 insecticides 546, 2690, 2730, 2740, 2742, 4738, 8583, 8612, 10692
 integrated control 8617
 microbial pesticides 547, 3798, 4757, 8582
 controlled atmospheres, effects 8278

Cydia pomonella cont.
Czechoslovakia 6136
distribution, India 11647
ecology, population dynamics 558,
2384, 2721, 4749
fruit trees
France 3794
Iraq 5721
USSR 534, 1553, 2721
fruits
German Democratic Republic 2690
India 8547
USSR 530, 1555
fumigants, effects 7186
genetics, mutations 2286
growth regulators
effects 3777
resistance 2745
toxicity 8613
Iran 492
monitoring 11651
traps 534, 554-555, 2730, 6136,
8605, 9684, 10692
morphology, developmental stages 3971
nectarines, commodities 8965
parasitoids 1555, 2743, 4736, 9680
pathogens 8610
models 8584
pears, Oregon 2745
pheromones 555, 3794, 6310-6311,
7239, 7241, 9684
physiology
pheromones 6309
sense organs 6310-6311
pome fruits, Belgium 10692
radiation, effects 4353, 4744
stone fruits
commodities 8962
South Africa 9675
USSR 7239
Cydia prunivora
apples, Quebec 8612
control, insecticides 8612
Cydia prunivorana (see also *C.*
lobarzewskii)
taxonomy, synonyms, of *Grapholita*
lobarzewskii 5737
Cydia pyrivora
biology 530
control 530
fruits, USSR 530
Cydia splendana
plant extracts, effects 6798
Quercus petraea, insects, France 5988
Cydia strobilella
biology
diapause 5995
environmental factors 5992
control, microbial pesticides 7916
pheromones 10007
Picea, Canada 10007
Picea abies
France 5992
Poland 5986
Picea engelmannii, Utah 3036
Picea glauca, Canada 7916
Cydia toreuta, *Pinus resinosa*, Wisconsin
11793
Cydia youngana (see *C. strobilella*)
Cydnidae
monitoring, traps 9331
USA 9331
Cydnodromella pilosa
attractants 11745
control, *Mononychellus tanajoa*, evalu-
ation 11745
Cydnodromellinae, taxonomy 11525
Cydonia oblonga (see Quinces)
Cydonia vulgaris (see Quinces)
Cyfluthrin (cyano(4-fluoro-3-phenoxy-
phenyl)methyl 3-(2,2-dichloroethenyl)-
2,2-dimethylcyclopropanecarboxy-
late)
control
Acari 8771
Agrotis ipsilon 4942
Anthonomus eugenii 4906
Anthonomus grandis 6982
cotton, insect pests 2924
Euxoa messoria 10874
Lepidoptera 10857
Cyfluthrin cont.
control cont.
Noctuidae 6981
Papaipema nebris 8489
Saperda populnea 10909
Thysanoptera 6940
deposition 8489
effects, cell cultures 976
mixtures, control, Lepidoptera 10857
nontarget effects
predatory arthropods 5820
Thripidae 8771
residues, *Capsicum annum* 5866
resistance
Cacopsylla pyricola 8624
Spodoptera littoralis 3935
synergism 3155
toxicity
Auricularia auricula, insect pests
11688
Dysdercus albofasciatus 6983
Noctuidae 2914
Spodoptera littoralis 3155
Cyhalothrin ([1 α ,3 α (Z)]-(\pm)-cyano(3-phe-
noxyphenyl)methyl 3-(2-chloro-3,3,3-
trifluoro-1-propenyl)-2,2-
dimethylcyclopropanecarboxylate)
control
apples, arthropod pests 8612
cotton, insect pests 2924, 3933
Euxoa messoria 10874
Myzus persicae 10851
Rhipiphorothrips cruentatus 2776
Thysanoptera 6940
toxicity, *Helicoverpa armigera* 11975
Lambda-cyhalothrin
control
Agrotis segetum 8790
Anthonomus grandis 6982
beet western yellows luteovirus, vec-
tors 1613
Epitrix hirtipennis 9890
insect pests 8058
Noctuidae 6981
Parlatoria zizyphi 7749
Pectinophora gossypiella 6960
Sitobion avenae 8459
Sitodiplosis mosellana 9536
nontarget effects, predatory arthropods
5820
residues
aubergines 6948
cotton 11766
resistance, *Heliothis virescens* 2915
toxicity
Aphidius gifuensis 7509
Noctuidae 8089
Scutovertex sculptus 2009
Trichoplusia ni 9063
Cyhexatin (tricyclohexylhydroxystannane)
control
Brevipalpus phoenicis 3817
Panonychus ulmi 2742, 11642
Polyphagotarsonemus latus 6957
Tetranychidae 11643
Tetranychus neocaledonicus 3919
Tetranychus urticae 4713, 6995
effects, *Cheletogenes ornatus* 5749
mixtures, control, *Tetranychus urticae*
2748
nontarget effects, Phytoseiidae 6837
residues, foods 10224
resistance
Panonychus ulmi 4754
Tetranychus urticae 2746, 3161,
3790, 6819, 9058-9059
toxicity, *Panonychus ulmi* 5730
Cylas
morphology 8213
taxonomy 8213
Cylas formicarius
biology 9837
control, integrated control 6931
distribution, Korea Republic 8295
pathogens 4889, 10835
sweet potatoes
India 709
Japan 9837
Taiwan 4889, 6931, 10835
Cylas formicarius elegantulus
attractants 708
Cylas formicarius elegantulus cont.
control, controlled atmospheres 8937
monitoring, traps 9838, 10834
pheromones 10834
plant extracts, oviposition attractants
4888, 6930
Quamoclit hederifolia, Florida 6667
sweet potatoes
commodities 8937
Florida 9838
varietal susceptibility 707
Taiwan 10834
Cylas puncticollis
Cape Verde 3133
control, integrated control 3133
crops, Cape Verde 151
plant extracts, toxicity 7087
stored products 7087
Cylindrocaptus adpersus
biology, overwintering 2899
parasitoids 2899
rearing techniques 5870, 7850
sunflowers 7850
North Dakota 2899
Cylindroiulus nitidus
ecology, population dynamics 10017
forests, France 10017
Cylindrothorax
biology 1024
food plants 1024
taxonomy 1024
Cylindrothorax ruficollis, taxonomy, syno-
nyms, *Cylindrothorax tenuicollis*
4265
Cylindrothorax tenuicollis, taxonomy,
synonyms, of *Cylindrothorax ruficol-
lis* 4265
Cylistix cylindrica (see *Platysoma*
cylindricum)
Cymatophorina diluta, distribution, Italy
9336
Cymbalophora pudica, physiology, pher-
omones 1084
Cymbidium
pest control, New Zealand 5913
Tetranychus urticae, German Federal
Republic 11786
Cymbopogon, *Fossispa lutena*, Central
America 4678
Cymbopogon flexuosus, *Nilaparvata lugens*
9589
Cymbopogon nardus, extracts, repellents,
Plutella xylostella 7579
Cymbopogon winterianus, oils, effects,
Sitophilus oryzae 5097
Cymbush (see Cypermethrin)
p-Cymene, mixtures, pheromones,
Velocitermes velox 3578
Cymiazole (see 2,4-Dimethyl-N-(3-methyl-
2(3H)-thiazolylidene)benzenamine)
Cymindis humeralis, Netherlands 9100
Cymindis seriata
Alnus, litter, Washington 9960
Micropeplus nelsoni, interactions 9960
Cynara scolymus (see Globe artichokes)
Cynipidae 2558
biology 4988
reproduction 839
food plants, Spain 4988
genetics, chromosome number 839
parasitoids 11473, 11805
plants, galls 839
Quercus
California 1807
galls 11805
Rosa canina, galls 2558
Spain 11473
UK 11805
Cynipoidea
distribution
Israel 1322
South America 270
evolution 4280
hosts 270
morphology 4280
Cynodon dactylon
Abacarus cynodonis, Egypt 9525
Agraphopus, India 4685
Bregmatothrips bournieri, Asia 4683
Spilosoma obliqua 2782

Cynodon dactylon cont.

- Spodoptera frugiperda*
- economic thresholds 7582
- Louisiana 6697
- resistance 2671, 2675, 9608

Cynoglossum officinale, *Ethmia bipunctella*, Netherlands 10534**Cynthia cardui**

- biology, behaviour 9300
- California 2151
- Europe 323
- evolution 2151
- food plants 323
- Morocco 1034
- parasitoids 5462
- soybeans, German Federal Republic 653, 3885
- Spain 1177

Cynthia carye

- Argentina 2151
- morphology 4283

Cyperaceae, *Macrostele purpurata*, China 1605**Cypermethrin** (cyano(3-phenoxyphenyl)methyl 3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate)

- antifeedants, *Phaedon cochleariae* 8687
- application 4867
- bioassays 3203
- control
 - Agrotis* 4911
 - Amrasca biguttula* 9756
 - Amrasca devastans* 11774
 - Amsacta moorei* 11718
 - Anthonomus grandis* 4918, 6958-6959, 6982
 - Anthonomus rubi* 8558
 - Antigastra catalaunalis* 6951
 - Aphididae 702, 8558
 - apples, arthropod pests 8612
 - Atherigona* 414
 - carrots, Hemiptera 4878
 - Cavelerius sweeti* 4606, 4610
 - Chlorops pumilionis* 10570
 - Contarinia* 4977
 - Contarinia medicaginis* 2688
 - Costelytra zealandica* 11598
 - cotton
 - insect pests 2924
 - Lepidoptera 11773
 - Enneothrips flavens* 4867
 - Euxoa messoria* 10874
 - Faustinus rhombifer* 5861
 - forest trees, insect pests 810
 - groundnuts, insect pests 665, 1671
 - Helicoverpa armigera* 3936, 5832, 8726-8727
 - Hishimonus sellatus* 10739
 - Hyphantria cunea* 485
 - Idioscopus clypealis* 11675
 - Lepidoptera 747, 1649, 1725, 10857
 - Lipaphis erysimi* 6874, 11701
 - lucerne, insect pests 478
 - Lymantria monacha* 5067
 - Mythimna separata* 7653
 - Myzus persicae* 10851
 - Neoleucinodes elegantalis* 8756
 - Noctuidae 6981
 - Oides scutellata* 8574
 - Parlatoria zizyphi* 7749
 - Pectinophora gossypiella* 6960
 - Phthorimaea operculella* 11741
 - Phyllocnistis citrella* 7752
 - Plutella xylostella* 9765
 - Quadraspidiotus perniciosus* 9681
 - Raoiella indica* 7711
 - raspberries, Coleoptera 506
 - Rhyzopertha dominica* 11032
 - rice, insect pests 2644
 - Scopula albiflava* 11733
 - Sitodiplosis mosellana* 9536
 - Solanum integrifolium*, insect pests 9854
 - soybeans, insect pests 9808
 - Spilosoma obliqua* 2729
 - Spodoptera exigua* 9560
 - Tetranychus cinnabarinus* 11693
 - Thrips tabaci* 4897, 7829
 - Thysanoptera 6940
 - detection 6484

Cypermethrin cont.

- effects
 - bacteria 11214
 - carp 8121
 - cotton 10856, 10858
 - Drosophila melanogaster* 2012
 - Earias vittella* 9065
 - fishes 5199
 - fungi 11203
- formulations, oils 2010
- metabolism, fowls 3179, 11990
- mixtures
 - control
 - Bothynoderes punctiventris* 6912
 - cotton, Lepidoptera 7853
 - groundnuts, insect pests 665
 - insect pests 5167
 - Lepidoptera 10857
 - Myzus persicae* 695
 - nontarget effects, Carabidae 695
 - stability 931
 - toxicity
 - Agrotis ipsilon* 8041
 - Heliothis virescens* 2921, 11976
 - Leptinotarsa decemlineata* 3174
 - Myzus persicae* 6158
- mutagenicity, *Drosophila melanogaster* 2013
- nontarget effects
 - Bemisia tabaci* 1725
 - Carabidae 696
 - evaluation 4248
 - forests, insects 5067
 - man 9081
 - predatory arthropods 5820
 - reviews 4248
- persistence
 - fruits 3780
 - soil 4624
- residues
 - Annelida 11191
 - aubergines 6948
 - Cicer arietinum* 11736
 - cotton 2912
 - legumes 11712
 - limes 10731
 - meat 6484
 - soil 11598
 - sorghum 11584
- resistance
 - Helicoverpa armigera* 6168
 - Heliothis virescens* 2914-2915, 2921, 6152, 6154, 8775
 - Myzus persicae* 6157-6158
 - Noctuidae 11767
 - Phorodon humuli* 351
 - Plutella xylostella* 11694
 - Scirtothrips citri* 11163
 - Spodoptera littoralis* 3935
- stability 931
- synergism 2921, 3155, 3174
- toxicity
 - Achaea janata* 1721
 - Aleurocanthus woglumi* 4781
 - Bemisia tabaci* 10859
 - beneficial insects 3497
 - Callosobruchus* 947-948
 - Callosobruchus maculatus* 3065
 - Chelonus blackburni* 1280
 - Clavigralla gibbosa* 9810
 - Coccinella septempunctata* 2476
 - Cornitermes cumulans* 4624
 - cotton 6954
 - Cyrtorhinus lividipennis* 11464
 - Dysdercus* 9871
 - Epilachna vigintioctopunctata* 11971
 - Helicoverpa armigera* 11975, 11987
 - Helicoverpa zea* 2914
 - Hymenoptera 8362
 - Lepidoptera 3159
 - Lipaphis erysimi* 3172, 11986
 - Liriomyza trifolii* 633
 - Mylabris phalerata* 10808
 - Nephotettix virescens* 11567
 - Noctuidae 2010
 - parasitoids 6529
 - Pentalonia nigronervosa* 8656
 - Plutella xylostella* 2798, 9764
 - Pteroma plagiophleps* 8890
 - Scirpophaga incertulas* 432, 6740

Cypermethrin cont.

- toxicity cont.
 - Scolytus multistriatus* 5051
 - Sitophilus oryzae* 5087, 11881
 - Sitotroga cerealella* 8951
 - Spilosoma obliqua* 7783
 - Spodoptera littoralis* 3155
 - Spodoptera litura* 9590
 - Thysanoplusia orichalcea* 736
 - Tribolium castaneum* 4059
 - Trichogramma* 5453
 - Trichogramma brasiliense* 11451
 - with chlorpyrifos, control, *Conopomorpha cramerella* 8792

Alpha-cypermethrin

- control
 - apples, arthropod pests 8612
 - carrots, Hemiptera 4878
 - Epitrix hirtipennis* 9890
 - Euxoa messoria* 10874
 - Macrotermes natalensis* 4010
 - Neoleucinodes elegantalis* 8757
 - Quercus*, Lepidoptera 1768
- degradation, determination 11141
- mixtures
 - toxicity
 - Acrididae 9064
 - Cyrtobagous salviniae* 7561

- toxicity
 - Acrididae 9064
 - beneficial arthropods 8125

Cyperus esculentus, biological control 10517**Cyperus rotundus**

- Agraphopus*, India 4685
- biological control 10517
- extracts, toxicity, *Epilachna vigintioctopunctata* 938
- Nephotettix virescens* 6739

Cyphenothrin (cyano(3-phenoxyphenyl)methyl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate)

- metabolism, rodents 8102

Cyprinodon variegatus, insecticides, effects 2039**Cyprus**

- Aphididae 2871
- Hymenoptera 6236
- Parabemisia myricae* 6455
- potatoes
 - commodities, insecticide residues 5085
 - insect pests 10824
- Propomacrus bimucronatus* 7440
- Saissetia oleae*, natural enemies 1589
- Spilostethus pandurus* 784

Cyromazine (*N*-cyclopropyl-1,3,5-triazine-2,4,6-triamine)

- control
 - Delia antiqua* 6939
 - Liriomyza trifolii* 2789
- effects
 - insects 6211
 - Manduca sexta* 2931

Cyrtacanthacridinae, physiology, sense organs 6346**Cyrtacanthacris tatarica**

- genetics, karyotypes 9279
- India 9279

Cyrtobagous salviniae

- Australian Northern Territory 1376
- biology 1376
- Botswana 10507
- control, *Salvinia molesta* 1376, 8416
- insecticides
 - effects 10507
 - toxicity 7561
- Salvinia molesta* 7561
- Sri Lanka 8416

Cyrtogaster

- hosts, *Ophiomyia phaseoli* 639
- Phaseolus vulgaris*, fields, Ethiopia 639

Cyrtogaster vulgaris

- hosts
 - Agromyza frontella* 9642
 - Dacnusa dryas* 9642
- lucerne, fields, Ontario 9642
- morphology, larvae 9642

Cyrtomenus bergi

- biology 712

- Cyrtomenus bergi** *cont.*
 cassava
 Colombia 712
 Trinidad and Tobago 1701
 control 712
- Cyrtopeltis nicotianae**
 food plants 8785
 plant viruses, transmission 8785
- Cyrtophora cicatrosa**
 biology, nutrition 8349
 India 8349
 predators 8349
- Cyrtophora citricola**
 biology, nutrition 8349
 India 8349
 predators 8349
- Cyrtophorinae**
 morphology 8378
 taxonomy 8378
- Cyrtosocus pustulatus**, *Dorynium pentaphyllum*, Spain 8830
- Cyrtorhinus lividipennis**
 biology, phenology 4659
 ecology, population dynamics 2652
 insecticides, toxicity 11464
 predators 7516
 prey
 Delphacidae 1463
 Hemiptera 8514
 Homoptera 2652
Nilaparvata lugens 256, 4659, 7529, 11581
 rearing techniques 11581
 rice
 fields
 India 2652, 4659, 8514
 Indonesia 1463
 Philippines 5664
- Cyrtotrachelus longimanus**
 bamboos, China 9518
 control, microbial pesticides 9518
- Cyrtozemia cognata**, *Vigna radiata*, India 5811
- Cystiphora schmidtii**, California 1383
- Cystiphora sonchi**
 biology 8419
 Canada 8419
 control, *Sonchus arvensis* 8419
- Cystosporogenes operophterae**
 culture techniques 6061
 hosts, Lepidoptera 6061
- Cytarabine** (see 1- β -Arabinofuranosylcytosine)
- Cytisus monspessulanus**, *Uresiphita reversalis*, California 5550
- Cytisus scoparius**
 Tortricidae 8546
Uresiphita reversalis, California 5550
- Cytisus striatus**, *Uresiphita reversalis*, California 5550
- Cytoplasmic polyhedrosis viruses**
 characteristics 10052
 classification 11102
 hosts
Antheraea mylitta 2531
Bombyx mori 3595
Dendrolimus 10052
 insects 7126
 Lepidoptera 11102
Sesamia inferens 7142
 staining 2531
- Cytrolane** (see Mephosfolan)
- Cyzenis albicans**
 habitats 1851
 hosts, *Operophtera brumata* 1851, 2722
 plant extracts, attractants 1851
 UK 2722
- Czechoslovakia**
 Aleyrodidae 2367
 Aleyrodinea 4272
 Aphididae 375
 parasitoids 4011
 apples, arthropod pests 11649
Attagenus smirnovi 4406
 Aulacidae, hosts 4012
 Carabidae 2373, 9456
Coccinella septempunctata 5472
 Coccoidea 2695
Contarinia lentis 8694
Cydia nigricana 3876, 7798
- Czechoslovakia cont.**
Cydia pomonella 3788, 10710, 11648
Delia radicum 1617
 Diprionidae 5978
 Diptera 6451
 bibliographies 12014
Ephesia nymphaea 5963
 forest trees, Lepidoptera 5385
 forests
 beneficial insects 2097
 Coleoptera 8828
 greenhouse crops
 pest control 7786
 reviews 11686
 Heteroptera 10996
Hylobius abietis 8825
 parasitoids 5030
 Hymenoptera, hosts 4405
 invertebrates, pollution, effects 5377
 Lepidoptera 6136
Leptinotarsa decemlineata 6928
Lymantria dispar, pathogens 4032
Lymantria monacha 2951, 8824
 microbial pesticides, conferences 10216
Monomorium pharaonis 4457
Notonecta glauca 2260
 ornamental woody plants, arthropod
 pests 837
Otiorhynchus ligustici 1409
Panonychus ulmi 11650
Pealius azaleae 4272
Quercus, Coleoptera 4040
 Sesiidae 5251
 sugarbeet, pest control 8731
Tomicus piniperda 794
Typhlodromus pyri 3787
Xyleborus alni 5027
Zenodoxus brosisformis 2560
- 2,4-D**
 effects
 arthropods 6654
Hyles euphorbiae 5553
Trichosirocalus horridus 9496
 weeds, litter, arthropods 6653
 mixtures, effects, *Neochetina eichhorniae* 8431
 nontarget effects, *Neoaplectana feltiae* 11940
- Dacamox** (see Thiofanox)
- Daceton armigerum**
 Formicidae, interactions 8325
 morphology, glands 8325
 pheromones 8325
- Dacinae**
 attractants 13
 Australasia 13
 food plants 13
 Oceania 13
 taxonomy 13
- Dacnonypha**, taxonomy 4259
- Dacnusa**
 fields, Hungary 9864
 hosts, *Chromatomyia horticola* 9864
- Dacnusa areolaris**, hosts, *Chromatomyia* 11779
- Dacnusa dryas**
 hosts, *Agromyza frontella* 9642
 lucerne, fields, Ontario 9642
 parasitoids 9642
- Dacnusa sibirica**
 biology, environmental factors 9850
 fields, Hungary 9864
 greenhouses, Netherlands 4536
 hosts
Chromatomyia horticola 9864
Liriomyza 4536
Liriomyza bryoniae 9850
- Dacnusa veronicae**, hosts, *Chromatomyia* 11779
- Dactinomycin**, effects, *Galleria mellonella* 116
- Dactylaria**, *Scapteriscus borellii*, interactions 1936
- Dactylis glomerata**
Aceria tulipae, Quebec 7671
 Aphididae, Washington 10635
Arachya menetriesii 7684
Glyphipterix simplicicella, UK 9620
 habitats
 predatory arthropods 8444
 Pteromalidae, UK 9620
- Dactylis glomerata cont.**
 Hemiptera, New Zealand 8526
Papaipema nebris 9549
Penthaleus major, outbreaks 9610
 Sitobion, UK 6663
Sitobion fragariae 11530
- Dactyloctenium aegyptium**, Pyralidae, food preferences 11580
- Dactylopiidae**
 distribution, Pacific Islands 7273
 taxonomy 7273
- Dactylopius coccus**
 biology 4561
 Canary Islands 4561
Opuntia 4561
 rearing techniques 4561
- Dactylopius coffeae**, taxonomy, synonyms, of *Planococcus lilacinus* 7887
- Dactylopius subterraneus**, taxonomy, synonyms, of *Planococcus ficus* 16
- Dactylosternum**, distribution, Australasia 10233
- Dactylosternum abdominale**, distribution, Australasia 10233
- Dactylosternum marginale**
 distribution, Australasia 10233
 wood 10233
- Dactynotus** (see *Uroleucon*)
- Dactynotus carthami** (see *Uroleucon carthami*)
- Dacus**
 apricots, India 11654
 attractants 13
 control 11654
 distribution 3753
 food plants 13
 fruits 3753
 pomegranates, India 1591
- Dacus aequilonis**, taxonomy, to *Bactrocera* 13
- Dacus bancroftii**, taxonomy, to *Bactrocera* 13
- Dacus barringtoniae**, taxonomy, to *Bactrocera* 13
- Dacus bryoniae**, taxonomy, to *Bactrocera* 13
- Dacus cacuminatus**, taxonomy, to *Bactrocera* 13
- Dacus choristus**, taxonomy, to *Bactrocera* 13
- Dacus cucumis** (see *Bactrocera cucumis*)
 taxonomy, to *Bactrocera* 13
- Dacus cucurbitae** (see *Bactrocera cucurbitae*)
 taxonomy, to *Bactrocera* 13
- Dacus curvipennis**, taxonomy, to *Bactrocera* 13
- Dacus distinctus**, taxonomy, to *Bactrocera* 13
- Dacus dorsalis** (see *Bactrocera dorsalis*)
- Dacus endiandrae**, taxonomy, to *Bactrocera* 13
- Dacus facialis**, taxonomy, to *Bactrocera* 13
- Dacus fagraea**, taxonomy, to *Bactrocera* 13
- Dacus frauenfeldi**, taxonomy, to *Bactrocera* 13
- Dacus frontalis**
 Cape Verde 907, 3133
 control
 biological control 907
 integrated control 3133
 crops, Cape Verde 151
- Dacus halfordiae** (see *Bactrocera halfordiae*)
 taxonomy, to *Bactrocera* 13
- Dacus jarvisi** (see *Bactrocera jarvisi*)
 taxonomy, to *Bactrocera* 13
- Dacus kirki**, taxonomy, to *Bactrocera* 13
- Dacus kraussi**, taxonomy, to *Bactrocera* 13
- Dacus longicornis**, taxonomy, to *Bactrocera* 13
- Dacus luteolus**, taxonomy, to *Bactrocera* 13
- Dacus mayi**, taxonomy, to *Bactrocera* 13
- Dacus melanotus**, taxonomy, to *Bactrocera* 13
- Dacus musae**, taxonomy, to *Bactrocera* 13
- Dacus neohumeralis**, taxonomy, to *Bactrocera* 13

Dacus niger, taxonomy, to *Bactrocera* 13
Dacus oleae (see *Bactrocera oleae*)
Dacus opiliae, taxonomy, to *Bactrocera* 13
Dacus passiflorae, taxonomy, to *Bactrocera* 13
Dacus psidii, taxonomy, to *Bactrocera* 13
Dacus quadratus, taxonomy, to *Bactrocera* 13
Dacus signatifer, taxonomy, to *Bactrocera* 13
Dacus strigatus, taxonomy, to *Bactrocera* 13
Dacus tenuifascia, taxonomy, to *Bactrocera* 13
Dacus tryoni (see *Bactrocera tryoni*)
 taxonomy, to *Bactrocera* 13
Dacus umbrosus, taxonomy, to *Bactrocera* 13
Dacus xanthodes (see *Bactrocera xanthodes*)
 taxonomy, to *Bactrocera* 13
Dacus zonatus (see *Bactrocera zonata*)
Daedalacanthus nervosus (see *Eranthemum pulchellum*)
Dahlia pinnata, *Helicoverpa armigera*, damage 6997
Dahlia variabilis (see *D. pinnata*)
Daktulosphaira vitifoliae (see *Viteus vitifoliae*)
Daktulosphaira vitifolii (see *Viteus vitifoliae*)
Dalbergia sissoo
Deroplax dalbergiae 2968
 extracts, effects, Isoptera 1794
Myllocerus, India 2969
Sinoxylon, India 1378
 wood, Isoptera, damage 1794
Dalbulus, plant pathogens 874
Dalbulus gelbus
 biology, behaviour 10589
 maize 10589
Dalbulus maidis
 biology 10583
 behaviour 10589
 control, cultural control 8493
 maize 10583, 10589
 Florida 10584
 Nicaragua 8493
 plant pathogens 8493
 transmission 10583-10584
Dalbulus quinquenotatus
 biology, behaviour 10589
 maize 10589
Dalda, effects, *Callosobruchus maculatus* 6047
Damaster, Japan 8346
Danaidae, distribution, British Columbia 10361
Danainae, taxonomy 5253
Danais chrysippus (see *Danaus chrysippus*)
Danaus chrysippus
 distribution, North Africa 1180
 physiology
 nervous system 10286
 senses 1109
Danaus chrysippus petilia
 biology, migration 1159
 Victoria 1159
Danaus gilippus
Asclepias 3337
 biochemistry, alkaloids 3337
 pheromones 3337
Danaus hamatus hamatus, physiology, pigments 1074
Danaus plexippus
Asclepiadaceae, Europe 6656
Asclepias 9495
 Bermuda 6502
 North America 6664
Asclepias fruticosa, Queensland 9494
Asclepias humistrata, Florida 9495
Asclepias syriaca, USA 331
 biochemistry, pyrrolizidine alkaloids 8427
 biology 6502
 behaviour 2573, 9494
 migration 1158, 6664
 reproduction 4368, 6393
 ecology 6656
 evolution 6664

Danaus plexippus cont.
 genetics, genes 5350
 Michigan 4476
 Minnesota 1158
 physiology
 chemical composition 331
 endocrine system 1120
 predators 4476
Senecio mikanioides, California 8427
Danaus plexippus plexippus
Asclepias, Queensland 2573
 conservation 7400
 Mexico 7400
Danitol (see Fenpropathrin)
Daphnia, insecticides, effects 6172, 7223
Daphnia hyalina, insecticides, toxicity 8098
Daphnia magna
 insecticides
 effects 6199
 toxicity 8098
Dapsilarthra rufiventris
 fields, Hungary 9864
 hosts, *Chromatomyia horticola* 9864
Daraba laisalis
 biology 3606
Solanum, South Africa 3606
Dargida meridionalis
 Gramineae, Brazil 5601
 natural enemies 5601
Dargida procincta
 food plants, Oregon 9634
 parasitoids 9634
Darlingia spectassima, *Idaethina ursula*, Queensland 11806
Dasineura
 control, *Euphorbia esula*, evaluation 4586
 Italy 4586
Dasineura brassicae
 monitoring, traps 604
 plant extracts, attractants 604
 rape
 German Democratic Republic 604, 10765
 Poland 7777
Dasineura capsulae
 control, *Euphorbia esula*, evaluation 4586
 Italy 4586
Dasineura gleditchiae
 control 3035
Gleditsia 3035
Dasineura mali
 apples, Hungary 4739
 biology 4739
 control, insecticides 4739
Dasineura swaini
 control, insecticides 1884
Picea, Alaska 1884
Dasineura tetensi, currants, Finland 9486
Dasmithius, taxonomy, new genus 7314
Dasmithius camelliae
 morphology 7314
 taxonomy, from *Caliroa* 7314
 tea, China 7314
Dasychira horsfieldii (see *Calliteara horsfieldii*)
Dasychira mendosa
 biology 2819
 phenology 1744
 jute, Pakistan 1744
Lablab purpureus, India 2819
 natural enemies 1744
Dasychira pudibunda (see *Calliteara pudibunda*)
Dasyhelea
 biology, behaviour 9299
 North America 9299
Dasynus piperis
 control, cultural control 10530
Piper nigrum, Indonesia 10530-10531
 sampling 10531
Dasytes flavipes, Umbelliferae, Poland 10820
Data banks, biological control agents, introduction 7156
Databases
 arthropods, immigration, North America 6467, 6495
 Membracoidea 8192

Databases cont.
 pest control 5153
 pesticides 2003
Datana integerrima
 biology 2717
 natural enemies 2717
 walnuts, Mexico 2717
Dates (*Phoenix dactylifera*)
Batrachedra amydrula, Israel 1544
 commodities
 Acari, damage 1913
Ephestia calidella 2702
Ephestia cautella 11051
Ephestia calidella, Iraq 2702
Oligonychus afrasiaticus, varietal susceptibility 500
Ommatissus binotatus 8551
 pest control 1375
 plantations, beneficial arthropods, Israel 4711
 pollen, food, *Amblyseius swirskii* 224
 wood, *Psammotermes hybostoma*, damage 3067
Datura, *Aculops lycopersici* 6457
Datura arborea, *Tuckerella elegans*, Costa Rica 7739
Datura metel
Aphis gossypii 6918
Epilachna vigintioctopunctata, Indonesia 2553
Datura stramonium
Dichroplus elongatus 2403
 extracts, antifungal agents, *Beauveria bassiana* 11498
Daucus carota (see Carrots)
 DBCP, effects, *Drosophila* 6185
 DC-702 (see Chlorpyrifos, with diflubenzuron)
p,p'-DDD (see *p,p'*-TDE)
 DDD (see TDE)
 DDE (mixture of isomers in which *p,p'*-DDE predominates)
 nontarget effects, birds 6175
 residues
 birds 8110
 fishes 6137
 foods 11219
 honey 962
Phalacrocorax olivaceus 9088
 plants 3205
 sea water 9093
 soil 3205
 streams 7228
p,p'-DDE (1,1'-(dichloroethenylidene) bis[4-chlorobenzene])
 residues
 air 6208
 crabs 8108
 human milk 2018
 reservoirs 8141
 DDT (mixture of isomers in which *p,p'*-DDT predominates)
 control
Costelytra zealandica 6206
 cotton, insect pests 742
 insect pests 6124
 Isoptera 863
Odontotermes obesus 10665
 rice tungro virus, vectors 9583
 Termitidae 8725
 degradation 2066, 6140
 effects
 aquatic organisms 7194
 cell cultures 976
 Cladocera 7223
 Echinodermata 6198
 legumes 1523
 pearl millet, commodities 10022, 11055
 rats 11207, 11996-11997
Tetranychus urticae 4184
Vigna radiata, commodities 11054
 extraction 3445
 formulations 7175, 8091
 mixtures
 control
Dialeurodes citri 9708
Syllepte derogata 755
 effects
 groundnuts 7807
 commodities 7996

DDT *cont.*
mixtures *cont.*
toxicity
 Allorhogas pyralophagus 9528
 Spilosoma obliqua 1953
nontarget effects
 birds 6175
 environment 10096
 evaluation 4247
 fishes 6196
 reviews 4247
penetration, *Rhizoglyphus echinopus* 4895
pollutants, marine areas 4213
residues
 air 6208
 birds 8110
 cereal grains 10038
 Crocodylus niloticus 7202
 dolphins 8127
 drinking water 7214
 fishes 6137, 7205
 foods 11219
 Hyalella azteca 965
 mammals 7206
 man 967, 4194
 medicinal plants 1407
 nontarget organisms 8092
 plants 3205
 rice 10607
 sea water 9093-9094
 soil 2066, 3205, 3445, 11233
 streams 7228
 vertebrates 11224
 water 5215, 6206, 7223, 11208
resistance, *Scirtothrips citri* 11163
synergism 6165
toxicity
 Allorhogas pyralophagus 9528
 crops 2044
 Epilachna ocellata 2872
 Epilachna vigintioctopunctata 5846
 Oryctes rhinoceros 497
 Plutella xylostella 2798
 Sitophilus granarius 9353
 sorghum 7655
 Spodoptera frugiperda 404
 stored products pests 846
 Tribolium castaneum 6165, 8091
usage, reviews 9053
***o,p'*-DDT** (1-chloro-2-[2,2,2-trichloro-1-(4-chlorophenyl)ethyl]benzene)
residues, water 5215
***p,p'*-DDT** (1,1'-(2,2,2-trichloroethylidene) bis[4-chlorobenzene])
effects, *Achaea janata* 7187
nontarget effects, rats 4197
residues
 air 6208
 foods 11219
 human milk 2018
 medicinal plants, commodities 4053
 reservoirs 8141
 water 980, 5215
resistance, *Tribolium castaneum* 11172
toxicity, Delphacidae 10104
DDVP (*see* Dichlorvos)
3-Deacetylazadirachtin
degradation 3169
toxicity, *Heliothis virescens* 3169
Dead trees
 Bolitotherus cornutus, New York 5009
 Tenebrionidae 3983
 Xyleborus alni, Czechoslovakia 5027
Decadiomus hughesi
Bermuda 10452
prey, Hemiptera 10452
taxonomy, new species 10452
Decamethrin (*see* Deltamethrin)
Decatoma (*see* Eurytoma; Sycophila)
Decatoma concinna (*see* Sycophila concinna)
(E)-2-Decenal, mixtures, pheromones, *Erthesina fullo* 7069
(Z)-5-Decen-1-ol acetate
mixtures, pheromones, *Agrotis segetum* 4417
synthesis 4417
(Z)-7-Decen-1-ol acetate
mixtures, pheromones, *Agrotis segetum* 4417
(Z)-7-Decen-1-ol acetate *cont.*
synthesis 4417
(Z)-5-Decen-1-ol, mixtures, attractants, *Batrachedra pinicolella* 2225
(Z)-5-Decenol, pheromones, *Agrotis segetum* 8540
Decenyl acetate, pheromones, *Cossus cossus* 557
(E)-2-Decenyl acetate, mixtures, pheromones, *Erthesina fullo* 7069
(Z)-5-Decenyl acetate
mixtures, attractants, *Batrachedra pinicolella* 2225
pheromones, *Agrotis segetum* 8231, 8540
physicochemical properties 8231
Decis (*see* Deltamethrin)
Decis D (*see* Deltamethrin, with dimethoate)
Decisquick (*see* Deltamethrin, with heptenophos)
Decticus, habitats, France 8284
Decticus verrucivorus
biology 7432
behaviour 461
environmental factors 9623
grasslands
 Europe 461
 UK 9623
songs 461
Spain 7432
Deet (*see* Diethyltoluamide)
Deinelenchus australiensis
Australia 9409
biology 9409
hosts, Hemiptera 9409
morphology 9409
Delia
 Brassica, resistance 10763
 control
 physical control 10769
 reviews 2785
 vegetables 2785
 Connecticut 10769
Delia antiqua
attractants 716, 5855, 9844
biology
 behaviour 4808, 4896, 5853, 5855-5856, 8752, 9844
 environmental factors 8754
control, insecticides 6939
crops, Finland 9486
diets 5855
ecology, population dynamics 2882
garlic
 Hungary 7831
 USSR 720
monitoring, traps 2881-2882, 4808, 7831
natural enemies 1292
onions 5853, 5855-5856, 9844
 British Columbia 2881
 Michigan 715, 8754, 11750
 New York 8752
 Poland 6939
 Romania 2882
physiology, behaviour 719
predators 11750
rape, Poland 7777
repellents 715
vegetables, UK 4808
Delia brassicae (*see* *D. radicum*)
Delia coarctata
biology, environmental factors 10567
cereals 6457
control, integrated control 387
distribution, maps 6457
ecology, population dynamics 385-386
natural enemies 387
parasitoids 10568
taxonomy 4680
wheat 10567
 German Democratic Republic 385-387, 10568
Delia fabricii
Poa pratensis, Norway 4680
taxonomy 4680
Delia floralis
biology, behaviour 4808
cabbages
 Finland 5793
Delia floralis *cont.*
cabbages *cont.*
 Norway 7251
control, insecticides 7251
Cruciferae 6460
distribution, maps 6460
monitoring, traps 4808
predators 5793
rearing techniques 6938
swedes
 Sweden 6938
 UK 10838
vegetables, UK 4808
Delia platura
biology
 behaviour 4808, 6882
 development 5801
control, cultural control 7614
cultural methods, effects 9801
ecology, population dynamics 9801
food plants
 North Carolina 7614
 varietal susceptibility 5801
Korea Republic 5801
maize, India 11550
monitoring, traps 4808
pathogens 11922
Phaseolus lunatus 6882
soyabeans, Ohio 9801
vegetables, UK 4808
Delia radicum
biology
 behaviour 4808, 7781
 development 9761
 environmental factors 2328
Brassica
 Belgium 603, 9770
 resistance 10763
 UK 9761
cabbages
 Finland 5793
 Norway 7251
 Switzerland 3894
 USSR 607
cauliflowers 8675
 Czechoslovakia 1617
 German Federal Republic 8674
cold resistance 2304, 8749
control 3892-3893, 8686
 insecticides 603, 1617, 6911, 7251, 9770
 physical control 1598, 3894, 8674
Cruciferae 6460
distribution, maps 6460
genetics, chromosome translocation 2291
growth regulators, effects 7235
monitoring, traps 4808
oviposition deterrents 8675
physiology, chemical composition 109
plant extracts, attractants 7781
predators 607, 5793
radishes
 German Federal Republic 3892-3893, 8686
 Poland 6911
swedes
 Manitoba 8749
 UK 8749
USSR 2328
vegetables 1598
 UK 4808
Delonix regia
forests, Hymenoptera, India 10980
Pteroma plagiophleps, India 8890, 10980
Delphacidae
bamboos, China 9515
biology
 behaviour 9354
 reviews 7401
China 3513
Czechoslovakia 4405
Japan 3704
monitoring, traps 6890
morphology 6343
 reproductive organs 3264
natural enemies 7401
parasitoids 3513, 4405, 4513, 9438, 11450
plant pathogens, transmission 11899

Delphacidae cont.

- plant viruses, transmission, reviews 3109
- predators 8509, 11556
- rice
 - China 4513, 4660, 8509, 11556
 - Japan 3704
 - resistance, reviews 6725
 - sampling 3704
 - sound production, recording 9354
 - soybeans, Argentina 6890
 - taxonomy 9515
- Delphacinae**, morphology, reproductive organs 3264
- Delphacini**
 - Africa 2155
 - morphology, reproductive organs 3264
 - taxonomy 2155
- Delphacodes luteolenta**, parasitoids 11449
- Delphastus pusillus**
 - cassava, fields, Colombia 711
 - prey, Aleyrodidae 711
- Delphax eupompe**, taxonomy, to *Latistria* 7310
- Delphinium ajacia** (see *Consolida ambigua*)
- Delphinus delphis**, insecticides, residues 8127
- Delta conoideus**
 - prey, *Helicoverpa armigera* 2182
 - venoms 2182
- Deltamethrin** ([1R-[1 α (S*),3 α]-cyano(3-phenoxypheyl)methyl 3-(2,2-dibromoethenyl)-2,2-dimethylcyclopropanecarboxylate)
 - application, ultralow volume spraying 11995
 - control
 - Agrotis* 7609
 - Agrotis segetum* 8790
 - Amrasca biguttula* 8669, 9756
 - Anthonomus grandis* 4918, 6958
 - Antigastra catalaunalis* 6951
 - Aphididae 702
 - apples, arthropod pests 8612
 - Atherigona* 414
 - Baris laticollis* 10767
 - Bothynoderes punctiventris* 2857
 - Bruchus pisorum* 2824
 - Cacopsylla pyri* 8621
 - carrots, Hemiptera 4878
 - Diatraea* 8515
 - Diptera 9753
 - Epitrix hirtipennis* 9890
 - field crops, insect pests 1440
 - forest trees, insect pests 810
 - Frankliniella occidentalis* 7901
 - greenhouse crops, insect pests 5162
 - groundnuts, insect pests 665
 - Helicoverpa armigera* 5832, 8726-8727
 - Idioscopus clypealis* 11677
 - Lepidoptera 747, 1649, 7876
 - Lymantria monacha* 5067
 - Maladera matrida* 3909
 - Maruca testulalis* 9795
 - Myzus persicae* 4874
 - Neoleucinodes elegantalis* 8757
 - Nilaparvata lugens* 3163
 - Noctuidae 2662
 - Oides scutellata* 8574
 - onions, insect pests 8750
 - Oulema* 381
 - Paraphytomyza luteoscutellata* 8806
 - Pectinophora gossypiella* 6960
 - Plutella xylostella* 4825, 6676, 9765
 - Populus canadensis*, insect pests 5917
 - Pristiphora abietina* 10989
 - Quadrastipidiotus perniciosus* 8580
 - Quercus*, Lepidoptera 1768
 - raspberries, Coleoptera 506
 - Rhipiphorothrips cruentatus* 2776
 - Rhyzopertha dominica* 11032
 - rice, insect pests 2644
 - Scopula albiflava* 11733
 - Sitobion avenae* 8459
 - Sitodiplosis mosellana* 9536
 - soybeans, insect pests 9808

Deltamethrin cont.

- control cont.
 - Spodoptera frugiperda* 5623
 - stored products pests 4069
 - sugarbeet, Coleoptera 2856
 - Syllepte derogata* 6962
 - Tetranychus cinnabarinus* 11693
 - Thysanoptera 4837
- deposition, monitoring 4419
- detection 6484
- effects
 - Agrotis segetum* 11179
 - Apis mellifera* 3585
 - birds 7213
 - cotton 10856, 10858, 11775
 - fungi 11203
 - Nilaparvata lugens* 422
 - Rhizoglyphus robini* 5187
 - Tetranychus urticae* 4184
- formulations 7598
- mixtures
 - control
 - cotton, mites 8771
 - Diatraea* 8515
 - groundnuts, insect pests 665, 1671
 - maize, insect pests 9573
 - Maladera matrida* 3909
 - rice, insect pests 2644
 - Thrips tabaci* 4897
 - nontarget effects, *Orius minutus* 8593
 - toxicity
 - Agrotis ipsilon* 8041
 - Leptinotarsa decemlineata* 3174
- nontarget effects 6700
 - beneficial arthropods 3163
 - Cotesia glomerata* 8684
 - Cyrtobagous salviniae* 10507
 - Doru luteipes* 5623
 - forests, insects 5067
 - groundnuts 7808
 - insects 10989
 - man 9081, 11995
 - predatory arthropods 1463, 6526
 - predatory insects 4653
 - Tetrastichus* 11677
- persistence 10034
 - soil 4624
- residues
 - Cicer arietinum* 671
 - cotton 2912
 - limes 10731
 - meat 6484
 - sorghum 11584
 - wheat 7598
- resistance
 - Heliothis virescens* 2915
 - Plutella xylostella* 11694
- synergism 3155, 3174, 5179, 11688
- toxicity
 - Achaea janata* 1721
 - Acrididae 7598, 9064
 - Allorhogas pyralophagus* 9528
 - Aphidius gifuensis* 7509
 - Asellus aquaticus* 2023
 - Auricularia auricula*, insect pests 11688
 - beneficial arthropods 8125
 - Callosobruchus* 947-948, 10034
 - Camponotus* 8958
 - Clavigralla gibbosa* 9810
 - Coccinella septempunctata* 2476
 - Coleoptera 4069
 - Coryca cephalonica* 3165
 - Cornitermes cumulans* 4624
 - Crustacea 8098
 - Epilachna vigintioctopunctata* 11971
 - Helicoverpa armigera* 11987
 - Hymenoptera 8362
 - insects 6868
 - Lepidoptera 3159
 - Linyphiidae 7271
 - Lipaphis erysimi* 3172, 5179, 11986
 - Liriomyza trifolii* 633
 - Macrocentrus linearis* 7511
 - Melanoplus sanguinipes* 4440
 - Meloidae 3842
 - Mylabris phalerata* 10808
 - Myzus* 6920

Deltamethrin cont.

- toxicity cont.
 - Noctuidae 2914
 - parasitoids 6529
 - Pentalonia nigronervosa* 8656
 - Scirpophaga incertulas* 6740
 - Sitophilus oryzae* 5087
 - Sitotroga cerealella* 8951
 - Spodoptera littoralis* 3155
 - stored products pests 5091-5093
 - Thysanoplusia orichalcea* 736
 - Trichogramma* 5453
 - Trichogramma brasiliense* 11451
 - with dimethoate, control, *Quadrastipidiotus perniciosus* 11652
 - with heptenophos, control, *Myzus persicae* 5838
 - with triazophos, control, *Quadrastipidiotus perniciosus* 11652
- Deltaphos** (see Deltamethrin, with triazophos)
- Deltocephalus hospes**, Gramineae, New Zealand 8526
- Deltocephalus pulicaris**
 - ecology, population dynamics 9545
 - grasslands, UK 9545
- Demeton** (demeton-O plus demeton-S)
 - control, *Nasonovia ribisnigri* 597
 - resistance, *Liriomyza trifolii* 9055
- Demeton-methyl** (demeton-O-methyl plus demeton-S-methyl)
 - control
 - Aphis craccivora* 6889
 - Brevicoryne brassicae* 4827
 - Capsicum annuum*, insect pests 2892
 - Drosicha mangiferae* 7759
 - Idioscopus* 6851
 - Indarbela* 3825
 - Omiodes indicata* 3882
 - mixtures, control, cotton, insect pests 746
 - toxicity
 - Cucurbitaceae 8688
 - Pentalonia nigronervosa* 8656
- Demeton-O**, with demeton-S (see Demeton)
- Demeton-O-methyl** (O-[2-(ethylthio)ethyl] O,O-dimethyl phosphorothioate)
 - control
 - Amrasca biguttula* 8669
 - Aspidiotus destructor* 10666
 - nontarget effects, *Apis florea* 1571
 - toxicity
 - Coccinella septempunctata* 2476
 - Lipaphis erysimi* 3172
 - with demeton-S-methyl (see Demeton-methyl)
- Demeton-O-methyl sulfoxide**, toxicity, *Nephotettix virescens* 11567
- Demeton-S**, with demeton-O (see Demeton)
- Demeton-S-methyl** (S-[2-(ethylthio)ethyl] O,O-dimethyl phosphorothioate)
 - control
 - Acyrtosiphon kondoi* 2686
 - Aphididae 1432
 - aubergines, insect pests 11757
 - Corythucha ciliata* 5965
 - Lipaphis erysimi* 2807, 11699
 - Myzus persicae* 5838
 - Sipha flava* 3724
 - Sitobion avenae* 8459
 - Thrips tabaci* 7829
 - Thysanoptera 3784
 - effects, *Callosobruchus chinensis* 6164
 - mixtures
 - control, *Cajanus cajan*, insect pests 6900
 - toxicity, *Myzus persicae* 6158
 - nontarget effects, Aphididae, predators 1432
 - residues, foods 10224
 - toxicity
 - Aphelinus mali* 8372
 - Myzus persicae* 6157
 - with demeton-O-methyl (see Demeton-methyl)
- Demotina bipunctata**
 - biology 2953
 - forest trees, Japan 2953

- Demotina decorata***
biology 2953
forest trees, Japan 2953
- Demotina fasciculata***
biology 2953
forest trees, Japan 2953
- Demotina modesta***
biology 2953
forest trees, Japan 2953
- Dendranthema grandiflora*, *Liriomyza trifolii*** 4971, 5912
- Dendranthema morifolium***
Aphis gossypii, Japan 1374
Myzus persicae, Brazil 4962
Ostrinia nubilalis, varietal susceptibility 4970
- Dendranthema pacificum*, *Liriomyza trifolii***, resistance 1751
- Dendrobacillin*** (see *Bacillus thuringiensis* subsp. *dendrolimus*)
- Dendrobium*, *Zonitoides nitidus***, damage 6996
- Dendrocerus carpenteri***
German Federal Republic 1392
hosts, *Uroleucon*, parasitoids 1392
- Dendrocheyla bregetovae***
Quercus, habitats, USSR 12017
taxonomy, new species 12017
- Dendrocopus pubescens***, prey, *Eurosta solidaginis* 7568
- Dendroctonus brevicomis***
biology, behaviour 3974, 11847
Pinus ponderosa 10945
plant pathogens, transmission 10945
- Dendroctonus frontalis***
biology, behaviour 3974
control 11825
integrated control 1785, 7949
ecology
distribution 11812
population dynamics 7028, 10210, 10960, 11844
Ereynetes propescutulis, interactions 12
forest trees, North America 7949
Monochamus titillator, interactions 8898
Pinus, Texas 7028
Pinus echinata, North Carolina 11812
Pinus strobus, North Carolina 7957
Pinus taeda, Texas 8898, 11825
USA 1785
- Dendroctonus micans***
bioassays 4035
biology, behaviour 7960
control, biological control 5034
forest trees, UK 5034
plant extracts, effects 4035
- Dendroctonus ponderosae***
attractants 2212, 5036
biology 8861
behaviour 3974
blue-stain fungi, transmission 5064
control 7918
cultural control 8867
trapping 5036
forest trees
British Columbia 7918
Canada 7063
Montana 4027
monitoring 7918
pheromones 3007, 8236
synthesis 8909
Pinus, Alberta 8861
Pinus contorta
British Columbia 5036, 7921, 8867
Montana 1788
Utah 5924
plant pathogens, interactions 5924
yeasts, interactions 8236
- Dendroctonus pseudotsugae***
attractants 3004
biology, behaviour 3974
control, trapping 3004
pheromones 74
Pseudotsuga menziesii, British Columbia 3004
- Dendroctonus punctatus***
biology 8841
morphology, larvae 8841
Picea glauca, Montana 8841
- Dendroctonus rufipennis***
pheromones 3007
Picea, Alaska 7010
- Dendroctonus simplex*, *Larix laricina***, North America 10964
- Dendroctonus terebrans***
attractants 7238, 8874
Florida 7238
genetics 6268
Pinus, Texas 8874
taxonomy 6268
USA 6268
- Dendroctonus valens***
biology, behaviour 3974
genetics 6268
Pinus, resistance 1787
Pinus ponderosa 10945
plant pathogens, transmission 10945
taxonomy 6268
USA 6268
- Dendroides canadensis***
cold resistance 821
forest trees, North America 821
- Dendrolaelaps sayedi***
biology 1344
prey, invertebrates 1344
taxonomy, new species 1344
- Dendrolimus***
insecticides, pathogenicity 10052
parasitoids 824
- Dendrolimus pini***
biology 8851
control, insecticides 810
ecology, population dynamics 10960, 11789
forest trees, USSR 3043
monitoring 7932
natural enemies 3043, 8851
parasitoids 5933, 8903
Pinus
Hungary 8851
Italy 5933
USSR 810
Pinus strobus, Netherlands 8903
Pinus sylvestris, German Democratic Republic 7932
- Dendrolimus punctatus***
biochemistry, eggs 9420
biology 7012
China 824, 6110
forest trees, China 4023, 7019
parasitoids 824, 7019
Pinus
China 9420
Japan 7012
predators 4023
augmentation 6110
- Dendrolimus sibiricus***
damage, determination 1800
ecology, population dynamics 11789
Larix sibirica, USSR 4985
USSR 1800
- Dendrolimus spectabilis***
biochemistry, proteins 11347
biology, development 29-30
genetics, gene expression 30
morphology, silk glands 22
pathogens 11102
physiology, fat body 7334
- Dendrolimus tabulaeformis***
China 1334
parasitoids 1334
pathogens 5117
- Dendrophilus punctatus***
poultry droppings 10248
Uropoda, phoresy 10248
- Dendrosoter***
forests, India 1862
hosts, Scolytidae 1862
- Dendrosoter caenopachoides***
ecology, population dynamics 9938
hosts, Scolytidae 9938
Israel 9938
- Dendrothrips***, distribution, Nepal 9142
- Dendrothrips stannardi***
Buddleja asiatica, Nepal 9142
morphology 9142
- Dendrotoxin***, effects, *Drosophila melanogaster* 4313
- Denmark**
Agrotis segetum 3832
- Denmark cont.**
Aleyrodidae, parasitoids 2946
Aphididae, predators 4616
arthropod pests 3142-3143
Bactra suedana 11599
biological control 9024
Carabidae 4391
Cephalcia 1882
Cerambycidae 11264
crops, pest control 12036
Formicidae 1233
Frankliniella occidentalis 773, 7901
predators 3864
greenhouse crops, arthropod pests 6170
insect pests 10222
insecticides, testing 8071
Ips typographus 2984, 3025
Mollusca 10222
Opiliones 1339
ornamental plants, pest control 2942
Oulema melanopus 6681
Phyllotreta nemorum 602
Scolytidae 801
Stigmella 1830
stored products pests, reports 5247
Thrips tabaci, predators 622
Zygaena 1536
- Densonucleosis viruses**
hosts
Bombyx mori 1363, 1366, 9475, 11931
Lepidoptera 3782
cell lines 11933
- Dentaria diphylla*, *Pieris virginiensis***, Ohio 10764
- Dentaria laciniata*, *Pieris virginiensis***, Ohio 3631, 10764
- Dentaria multifida*, *Pieris virginiensis***, Ohio 3631
- Deois flavopicta***
control
cultural control 4691
microbial pesticides 4690
Gramineae, Brazil 4679
pastures, Brazil 4690-4691, 5683
pathogens 9730, 11905
predators 5683
- Deois incompleta***
biology 9616
phenology 8531
Digitaria decumbens, Brazil 8531
monitoring 8531, 9616
pastures, Brazil 9616
- Deois schach***
biology 9616
phenology 8531
Digitaria decumbens, Brazil 8531
monitoring 8531, 9616
pastures, Brazil 9616
- 4'-Deoxy-4"-epiavermectin B₁ hydrochloride**, toxicity, *Lymantria dispar* 10953
- DEP** (see Trichlorfon)
- Deporaini**
Japan 8
taxonomy 8
- Deporaus betulae*, *Betula***, damage 812
- Deporaus marginatus***
biology 11674
insecticides, toxicity 11674
mangoes 11674
- Depressaria pastinacella***
parsnips 10813
secondary metabolites, effects 10813
physiology, nutrition 10813
phytotoxins, metabolism 9056
- Deraeocoris pallens***
biology, development 4529
Cucurbitaceae, fields, Iraq 4836
Iraq 4529
prey, Hemiptera 4529
- Deraeocoris piceicola*, *Picea***, USA 11808
- Derancistrus fellerae***
mangroves, Belize 1401
morphology 1401
- Derelomini**
Oriental Region 3925
taxonomy 3925
- Derelomorphus***, taxonomy 3925
- Derelomorphus eburneus***, coconuts 3925

- Derelomorphus subfulvus***
cotton, Asia 3925
taxonomy, new species 3925
- Dereodus schonherri***, maize, South Africa 9574
- Dermaptera***
biology 7255
British Isles, books 7255
checklists, Nicaragua 5235
conservation 6397
distribution, Sweden 4387
German Federal Republic 6613
Mississippi 5378
North America 9161
pathogens, isolation 6613
taxonomy 9161
books 11250
Ziziphus spina-christi, Egypt 5744
- Dermatophagoides farinae***, predators 9443
- Dermatophagoides pteronyssinus***
bacteria, interactions 11379
man, allergens 8942
- Dermestes***
biology 4049
fishes, commodities 4049
- Dermestes ater***
biology
behaviour 6433
development 7084
distribution, New Zealand 4384
prey, *Bombyx mori* 7084
silk, India 7084
- Dermestes bicolor***, leather, Iraq 848
- Dermestes frischii***, leather, Iraq 848
- Dermestes maculatus***
biology, behaviour 1887
control, insecticides 1887
dried fish 6017
insecticides, toxicity 11013
leather, Iraq 848
museum specimens 1887
plant oils, effects 6017
rearing techniques 8929
- Dermestidae***
biology 1896
control 1896
museum specimens, USSR 1890
stored products 1896
- Derobrachus geminatus***, physiology, vitellins 9242
- Deroceras***
control, molluscicides 6627
field crops, Belgium 6627
- Deroceras agreste***, crops, Finland 9486
- Deroceras caruanae*** (see *D. panormitanum*)
biology, environmental factors 612
molluscicides, effects 316
- Deroceras laeve***
control, molluscicides 356, 6622
ecology, population density 356
fields, Pennsylvania 356
Israel 6622
monitoring, traps 356
prey, *Ceroplastes floridensis* 6622
- Deroceras panormitanum***
heavy metals, accumulation 9483
New Zealand 7547
pastures, New Zealand 474
predators 7547
taxonomy, synonyms, *Agriolimax caruanae* 5541
wheat, UK 9538
woodlands, UK 9483
- Deroceras reticulatum***
biology
behaviour 952, 2548, 4702
environmental factors 301, 475
cereals, UK 370-371
control
biological control 598
molluscicides 356, 371, 505, 705, 954, 8405
crops, Finland 9486
ecology
population density 356
population dynamics 505
population structure 358
field crops
Belgium 357
Pennsylvania 327
- Deroceras reticulatum* cont.**
field crops cont.
UK 358
fields, Pennsylvania 356
genetics, genes, enzymes 358
heavy metals, accumulation 9483
lettuces, UK 598
lucerne, USA 3682
molluscicides
effects 305, 314, 318, 951-952, 5539
metabolism 7544
toxicity 2551, 6617
monitoring, traps 356
pastures
New Zealand 309, 474
UK 475
physiology
chemical composition 302
enzymes 951
reproduction 2542
plant pathogens, transmission 483
potatoes
resistance 706
UK 705
predators 278
sampling 309
soil, compaction, effects 3659
strawberries, Quebec 505
Trifolium repens
damage 3745
UK 4702, 5692
UK 302, 954, 2548, 3659, 6617
wheat, UK 8405, 9538
woodlands, UK 9483
- Derodontidae***, distribution, North America 3419
- Deroplax***
Oriental Region 2968
taxonomy 2968
- Deroplax dalbergiae***
Dalbergia sissoo 2968
taxonomy, new species 2968
- Desbromoleptophos*** (see *O*-(2,5-Dichlorophenyl) *O*-methyl phenylphosphonothioate)
- Descarpentriesina***, North America 9149
- Descarpentriesina cyanipes***, taxonomy, from *Poecilonoa* 9149
- Deschampsia flexuosa***, *Cerapteryx graminis*, Netherlands 1520
- Descurainia sophia***, *Ceutorhynchus constrictus* 7774
- Desert broom** (see *Baccharis sarothroides*)
- Deserts**
Acrididae, USSR 3478
Araneae, California 5446
arthropods
ecology 9324
USSR 9324
invertebrates, physiology, water relations 6370
- Desmetryn***, nontarget effects, Carabidae 7780
- Desmodium purpureum***
habitats, *Glabromicroplitis croceipes*, Georgia 4856
Helicoverpa zea, Georgia 4856
- Desmodium tortuosum***, extracts, effects, Noctuidae 10872
- Desmometopa inaurata***, *Dysoxylum gaudichaudianum*, Queensland 1875
- Desmostachya bipinnata***, *Nazeeriana*, Pakistan 2588
- Destruxin A***, molecular structure 10051
- Destruxin E***, effects, Aphididae 7246
- Destruixins***, toxicity, Lepidoptera 10060
- Detergents***, effects, *Chrotogonus homalodemus* 5420
- 1-Deitigloyl-22,23-dihydroazadirachtin**, growth regulators, Noctuidae 11981
- Detritus***, physiology, respiration 9246
- Dettmeria euxestae***
Brazil 270
parasitoids 270
- Deudorix epijarbas***, pomegranates, India 1591
- Deudorix epijarbus***
parasitoids 3821
pomegranates, India 3821
- Developed countries***, sweet potatoes, pest control 7827
- Developing countries***
insecticides, usage 8054
integrated pest management 8060
pest control 5154
sweet potatoes, pest control 7827
- Diabrotica***
control, insecticides 4647, 6127
maize
Missouri 4647
resistance 8500
physiology, enzymes 9170
plant pathogens, transmission 5815
soyabeans, Ecuador 5815
taxonomy 9170
- Diabrotica balteata***
biology, sex ratio 4850
cold resistance 11361
control, integrated control 634
pathogens 9822, 11071
Phaseolus vulgaris, Cuba 634, 4850
physiology, enzymes 9170
South Carolina 11361
sweet potatoes, varietal susceptibility 9822
taxonomy 9170
- Diabrotica barberi***
attractants 2636, 11543
bibliographies 11242
biology, behaviour 9309, 9550
crops, Pennsylvania 9550
ecology, population dynamics, models 8484-8485
maize
Illinois 2636, 11543
Iowa 9553
New York 8484-8485
New York 1951
pathogens 1951
physiology, enzymes 9170
sampling 9553
Solidago canadensis 9550
taxonomy 9170
- Diabrotica cristata***
attractants 11543
maize, Illinois 11543
physiology, enzymes 9170
taxonomy 9170
- Diabrotica lemniscata***
physiology, enzymes 9170
taxonomy 9170
- Diabrotica longicornis***
physiology, enzymes 9170
taxonomy 9170
- Diabrotica speciosa***
biology, phenology 3656, 9827
Brazil 9780
control, insecticides 4666, 8697
Cucurbita pepo, pollination 8691, 9780
natural enemies 9827
Phaseolus vulgaris, Brazil 8697, 9785
potatoes, Brazil 9827
rice, Brazil 4666
wheat, Brazil 3656
- Diabrotica undecimpunctata***
control, cultural control 7614
insecticides, toxicity 9099
- Diabrotica undecimpunctata howardi***
attractants 2636, 11543
biology, environmental factors 9559
cold resistance 11361
cotton, Mississippi 1735
deterrents 1414
food plants, North Carolina 7614
insecticides, toxicity 6162
maize
Illinois 2636, 11543
North Carolina 1455
physiology, enzymes 9170
predators 1735, 8544
soil 9559
South Carolina 11361
sunflowers, Mississippi 8544
taxonomy 9170
- Diabrotica virgifera***
control, microbial pesticides 5581
maize, Kentucky 2638
sampling 2638
- Diabrotica virgifera* group**
genetics, genes, isoenzymes 2127
physiology 2127
taxonomy 2127

- Diabrotica virgifera* group cont.**
USA 2127
- Diabrotica virgifera virgifera***
attractants 2636, 11543
bibliographies 11242
biology
behaviour 9309, 9550
development 8474, 11541
dispersal 7414
environmental factors 9319, 9557
movement 9551
survival 5618
control, insecticides 9567, 10595, 11546
crops, Pennsylvania 9550
diets 11541
ecology, population dynamics 1451
forecasting 10588
genetics, genes, isoenzymes 2127
Indiana 7414
insecticides
effects 4650
pathogenicity 7147
resistance 11161
maize 4650, 5618, 9551, 11541
damage 413, 11549
Illinois 2636, 11543
Iowa 2639, 9553, 11548
Missouri 9567
Nebraska 11545
South Dakota 1451, 8474, 10588,
10595, 11546
monitoring, traps 11545
pheromones 11545
physiology 2127
enzymes 9170, 11161
immune response 7147
sampling 9553
soil 9557
Solidago canadensis 9550
taxonomy 2127, 9170
USA 2127
- Diabrotica virgifera zeae***
bibliographies 11242
physiology, enzymes 9170
taxonomy 9170
- Diachasmimorpha novoguineensis*, *Planococcus fungicola***, interactions 7887
- Diachasmimorpha longicaudatus* (see *Bios-teres longicaudatus*)**
- Diachasmimorpha tryoni***
biology 4488, 10436
hosts, *Ceratitis capitata* 4488, 10436
- Diacrisia investigatorum***, taxonomy, to *Alpenus* 2132
- Diacrisia obliqua* (see *Spilosoma obliqua*)**
- Diacrisia rattrayi***, taxonomy, subspecies, of *Alpenus schraderi* 2132
- Diacrisia virginica* (see *Spilosoma virginica*)**
- Diadegma***
distribution, Bulgaria 3559
hosts
Antigastra catalaunalis 11765
Cydia leucostoma 2935
sesame, fields, India 11765
tea, plantations, India 2935
- Diadegma argenteopilosa* (see *Eriborus argenteopilosa*)**
- Diadegma armillata***
apples, orchards, USSR 550
hosts
Yponomeuta 10454
Yponomeuta malinellus 550, 2722
Netherlands 10454
orchards, USSR 2722
- Diadegma eucerophaga***
control, *Plutella xylostella* 5791
Taiwan 5791
- Diadegma fenestralis***
Allium, fields, Poland 1704
hosts, *Acrolepiopsis assectella* 1704
- Diadegma insularis***
biology 5788
broccoli, fields, Virginia 1620
cabbages, fields, Costa Rica 4825, 5788
hosts, *Plutella xylostella* 1620, 4825,
5788
- Diadegma semiclausum***
biology 1625
development 1640
cabbages, fields, Egypt 1625
- Diadegma semiclausum* cont.**
hosts, *Plutella xylostella* 1612, 1625,
1640
pathogens 1612, 1640
- Diadegma terebrans***
biology 11609
hosts, *Ostrinia nubilalis* 8373, 11609
maize, fields, Italy 11609
plant extracts, effects 8373
- Diadoxus erythrurus***, food plants 4007
- Diadoxus scalaris*, *Cupressus macrocarpa***, Australia 4007
- Diadromus collaris***
Diadromus pulchellus, interactions 4509
hosts, *Acrolepiopsis assectella* 4509
- Diadromus pulchellus***
attractants 235
Diadromus collaris, interactions 4509
hosts
Acrolepiopsis assectella 4509
Yponomeutidae 235
- Diadromus subtilicornis***
biology 7768
hosts, *Plutella xylostella* 6880, 7768
Japan 6880, 7768
- Diaea***
biology, behaviour 11441
prey, *Drosophila immigrans* 11441
- Diaeretiella***
hosts, Aphididae 2137
morphology 2137
taxonomy 2137
- Diaeretiella rapae***
biology 5484
behaviour 3854, 5497, 6573, 8677
reproduction 6864
Brussels sprouts
fields, UK 5484
habitats 8677
ecology, population dynamics 11442
herbicides, effects 1618
host plants, habitats 6573
hosts
Aphididae 5484, 5789, 6573
Brevicoryne brassicae 613, 1618,
3854
Lipaphis erysimi 5497, 6864, 6875,
11442
Syrphidae 6873
India 6873, 6875
insecticides, effects 5484, 8677
kale
fields
Massachusetts 613
New York 3854
USA 5789
parasitoids 5789
- Diaeretus rapae* (see *Diaeretiella rapae*)**
- Diagonogastra kimballi***
Gramineae, habitats, North America 5584
hosts, Pyralidae 5584
taxonomy, new species 5584
- Diagonogastra solitaria***
Gramineae, habitats, North America 5584
hosts, Pyralidae 5584
taxonomy, new species 5584
- Dialeurodes***
Czechoslovakia 4272
food plants, Cuba 5548
parasitoids 3498
taxonomy 2148, 4272
- Dialeurodes citri***
biology, behaviour 11667
China 3103
Citrus
Israel 7751, 11663
Italy 3816
Colombia 2148
control
biological control 3129
growth regulators 11663
insecticides 7751, 9708
ecology, distribution 11665
Israel 2148
Italy 3129
lemons 11667
mandarins
India 9708
- Dialeurodes citri* cont.**
mandarins cont.
Japan 11665
morphology, mouthparts 3252
natural enemies 11665
parasitoids 3816, 11663
pathogens 3103
taxonomy 2148
- Dialeurodes citrifolii***
checklists, Bermuda 153
food plants 153
- Dialeurolonga elongata***
Citrus, India 4782
natural enemies 4782
- Dialeurolonga fici***, taxonomy, synonyms, of *D. maculata* 10717
- Dialeurolonga maculata***
Ficus religiosa, Madagascar 10717
taxonomy
as *Dialeurolonga takahashii* 10717
from *Aleurotulus* 10717
synonyms, *Dialeurolonga fici* 10717
- Dialeurolonga takahashii***
taxonomy 10717
for *Dialeurolonga maculata* 10717
- Dialifor* (see *Dialifos*)**
- Dialifos* (S-[2-chloro-1-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)ethyl] O,O-diethyl phosphorodithioate)**
residues, tea 770
- O,O-Dialkyl O-(substituted phenyl) phosphorothioates**, physicochemical properties 9060
- Diammonium phosphate**, mixtures, control, cotton, insect pests 746
- Dianthus barbatus*, *Helicoverpa armigera***, damage 6997
- Dianthus caryophyllus* (see *Carnations*)**
- Diapetimorpha introita***
hosts, *Spodoptera frugiperda* 7608
maize, fields, Georgia 7608
- Diaphania hyalinata***, food plants, Cuba 5548
- Diaphania indica***
biology 5782
food plants, China 5782
monitoring, traps 5782
parasitoids 5782
- Diaphania nitidalis***
biology, population density 6877
cucumbers, South Carolina 6877
monitoring, traps 6877
pheromones 6304
physiology, endocrine system 6304
- Diaphania pyloalis***, pathogens 3782
- Diaphnocoris chlorionis***
control 3035
Gleditsia 3035
Gleditsia triacanthos, Ohio 10951
sampling 10951
- Diaphorencyrtus aligarhensis***
hosts, *Diaphorina citri* 4784
parasitoids 4784
Taiwan 4784
- Diaphorina citri***
Citrus
commodities 4785
India 1578
Philippines 9702
Reunion 7745
Taiwan 4784
control 4789
insecticides 1578
distribution, Honduras 4785
ecology
distribution 10732
population dynamics 9702
limes, India 10732
oranges, India 4789
parasitoids 4784
plant pathogens, transmission 7745,
9702
- Diaprepes abbreviatus***
cabbages 1208
Citrus, Caribbean 8645
control, integrated control 8645
rearing techniques 1208
- Diapriidae**
biology, behaviour 4447
Europe 7518
hosts, Formicidae 4447

Diapriidae cont.

taxonomy 7518

Diaptomus, insect growth regulators, effects 2755**Diaretus rapae** (see *Diaeretiella rapae*)**Diaspididae**

Citrus, Cuba 8642
control, insecticides 488
fruit trees, Israel 488
New Zealand 2124
parasitoids 2124, 3574

Diaspidiotus

Romania 7311
taxonomy 7311

Diaspidiotus prunorum

biology, phenology 493
fruit trees, Iran 493
parasitoids 493

Diaspis bromeliae, ornamental plants, Egypt 776**Diaspis echinocacti**

Palmae 4710
predators 4710

Diatraea

control
biological control 8450
insecticides 8515
Gramineae, North America 5584
maize, resistance 8500
natural enemies 8450
parasitoids 263, 5584
sorghum, Brazil 8515
sugarcane
Brazil 8450
Cuba 8451

Diatraea crambidoides

North Carolina 1312
parasitoids 1312

Diatraea grandiosella

biology
development 8473
diapause 5277
diets 8473
ecology 4638
population dynamics 9558
forecasting 9570
maize
Mexico 4637
Mississippi 7606
North America 2624, 4638
resistance 4651
Texas 4643, 9558, 9566, 9570, 11551

monitoring
heat sums 9570
traps 4643
morphology 5277
natural enemies 9558
parasitoids 4637
pathogens 11551
pheromones 10276
physiology
diapause 1058
lipids 2278
predators 9566

Diatraea lineolata

biochemistry, enzymes 10315
biology
behaviour 10587
environmental factors 5621
phenology 2632

diets 5621
maize 5621
Mexico 2632, 10587
sugarcane, Cuba 8451

Diatraea saccharalis

biochemistry
enzymes 10315
proteins 9267
biology
behaviour 10543, 10587
environmental factors 4607-4608
phenology 2632
reproduction 9609
control, insecticides 4666
Cuba 9267
diets 4607-4608
distribution, maps 6460
fertilizers, effects 8479
food plants 10543
America 6460

Diatraea saccharalis cont.

Gramineae, Louisiana 9609
maize
Brazil 8479
Mexico 2632, 10587
North America 2624
natural enemies, cultural methods, effects 4605
parasitoids 2971, 8357, 8448
pathogens 1922, 6684, 9730
physiology, respiration 10548
predators, monitoring, traps 4605
rearing techniques 4607
rice, Brazil 4666
sugarcane
Brazil 4605, 4608, 8448-8449, 10548
Cuba 8451

Diazinon (*O,O*-diethyl *O*-[6-methyl-2-(1-methylethyl)-4-pyrimidinyl] phosphorothioate)

control
Agrypnus variabilis 8658
Bruchus pisorum 2824
Ceratitis capitata 578
cereals, insect pests 4615
Chloropulvinaria polygonata 11678
Chromoderus affinis 5835
Coleoptera 1698
Delia antiqua 6939
Delia radicum 6911
Diptera 10758
Maladera matrida 3909
Metachroma 1524
Oides scutellata 8574
Quercus, Lepidoptera 1768
Rhizoglyphus echinopus 1705
rice, insect pests 10628
Scarabaeidae 9626
Spodoptera frugiperda 8497, 9562
Wiseana 6755

degradation 7217
Rhizopus arrhizus 979
soil 7225

effects

Apis mellifera 2534
Callosobruchus chinensis 6164
Colinus virginianus 969
Sitophilus zeamais 4065

formulations 8081**measurement** 5216**mixtures****control**

Maladera matrida 3909
Orthezia praelonga 4954
toxicity, Acrididae 9064

nontarget effects

Apis mellifera 11199
aquatic organisms 2039
pollution, waste water 4209

residues

cranberries 6787
fog 10149
fruits, commodities 10045
lakes 5217
rice, commodities 10036
rivers 6203
textiles 6020

resistance, *Rhizoglyphus robini* 8082, 11748

sorption, soil 2004

synergism 8082

toxicity

Auricularia auricula, insect pests 11688

Camponotus 8958

fishes 8123

Scirpophaga incertulas 432

with fenobucarb, control, *Chaetocnema* 7910

1,2-Dibenzoyl-1-tert-butylhydrazine

antagonists, moulting hormones 11236
effects

Drosophila, cell lines 11236

Manduca sexta 11237

Dibrachys cavus**hosts**

Cydia molesta 4767

Cydia pomonella 1555

orchards, USSR 1555

peaches, orchards, Chile 4767

2,6-Di-tert-butyl-4-methyl phenol, mixtures, attractants, *Sitotroga cerealella* 7093

Dicaphthon (*O*-(2-chloro-4-nitrophenyl) *O,O*-dimethyl phosphorothioate)
determination 10146

Diceroprocta apache, physiology, water relations 1128

Dichasmimorpha tryoni

hosts, *Ceratitis capitata* 6535
rearing techniques 6535

Dichelonyx vicina columbiana

biology, food plants 2949
forest trees, Montana 2949

Dichillus minutus

biology, behaviour 10417
France 10417
prey, *Pheidole pallidula* 10417

Dichlofluanid, effects, *Drosophila melanogaster* 5190

Dichlone, toxicity, stored products pests 6018

Para-dichlorobenzene, residues, estimation 11220

1-(1,1-Dichloro-2,2-difluoroethoxyphenyl)-3-(2-chlorobenzoyl)urea, toxicity, *Spodoptera littoralis* 11209

O-(2,5-Dichlorophenyl) O-methyl phenylphosphonothioate, nontarget effects, fowls 8190

N-(((3,5-Dichloro-4-(1,1,2,2-tetrafluoroethoxy)phenyl)amino)carbonyl)-2,6-difluorobenzamide, toxicity, *Choristoneura occidentalis* 9103

1-(3,4-Dichloro-4-(1,1,2,2-tetrafluoroethoxy)phenyl)-3-(2,6-difluorobenzoyl)urea, toxicity, *Spodoptera littoralis* 11209

Dichlorvos (2,2-dichloroethenyl dimethyl phosphate)

application 11400

control

Agromyza cinerascens 2603
Amsacta albistriga 2846
Bactrocera dorsalis 4707
Brevicoryne brassicae 4827
cabbages, insect pests 4823
Cicadellidae 2887
Curculio nuceum 3773
Cydia funebrana 5740
Dermestes maculatus 1887
Diptera 9753
Dorylus orientalis 9737
Drosicha mangiferae 7759
Frankliniella occidentalis 3960, 7007, 7901
Indarbela 3825
Lipaphis erysimi 2807
Malacosoma neustria 5165
Neodiprion guangxiicus 2974
Spilosoma obliqua 2729
tomatoes, insect pests 3917
Tyrophagus longior 8812

degradation 7217

detection 9089

effects

Bruchidius atrolineatus 7111
man 3188
Mythimna separata 9198
parasitoids 2846
Pericallia ricini 939

nontarget effects, *Rana tigrina* 4198

residues

museum specimens 1887
sea water 4204

resistance

Aphis gossypii 7761
Plutella xylostella 10106
Tetranychus urticae 935

toxicity

Auricularia auricula, insect pests 11688
fishes 8123
Nephotettix virescens 11567
Spodoptera litura 9590

Dichocrocis punctiferalis

food plants, Japan 5741
mangoes, Bangladesh 1594
morphology 5741
sensilla 8216
taxonomy 5741

Dichomerinae

morphology 3225

Dichomerinae *cont.*
taxonomy 3225

Dichogaster aestivalis, *Tilia cordata*, Poland 2440

Dichroscytus
ecology, population density 1864
Juniperus scopulorum, Colorado 1864

Dichroscytus latifrons, *Picea*, USA 11808

Dichroscytus valesianus, *Juniperus communis*, UK 827

Dichroplus, distribution, South America 4436

Dichroplus elongatus
biology, behaviour 2403
Brazil 7137
distribution, South America 4436
food plants, Chile 2403
pathogens 7137

Dichroplus pratensis
Argentina 1212
genetics
B chromosomes 1212
cytogenetics 6378

Dichrorampha sedatana
biology 9333
distribution, Italy 9333

Dicladispa armigera
pathogens 5663
rice 5663
India 2657, 5642, 6736, 9598, 11573
yield losses 7647

Dicladispa testacea
distribution, Turkey 9493
food plants 9493

Diclofop-methyl, effects, *Rhopalocera* 8457

Dicofol (4-chloro- α -(4-chlorophenyl)- α -(trichloromethyl)benzenemethanol)
application 744
control
Aculops lycopersici 6942
Dolichotetranychus floridanus 8657
fruits, arthropod pests 1537
Panonychus citri 2772
Phytonemus pallidus 504
Polyphagotarsonemus latus 689, 744, 6957
Raoiella indica 7711
Tetranychidae 2752
Tetranychus 2835
Tetranychus macfarlanei 2795, 3841
effects
Amblyseius victoriensis 8632
birds 3181, 11999
Crustacea 3176
Tetranychus urticae 4184
mixtures
control
Aculops lycopersici 6942
Panonychus ulmi 520
Phyllocoptruta oleivora 9720
Tetranychus urticae 3855, 6995
nontarget effects, soil arthropods 1731
nontarget effects
Cheyletus malaccensis 1291
man 3184
soil arthropods 1731
residues
birds, eggs 3441
Citrus, commodities 10045
determination 3441
sorghum 11584
resistance
Panonychus ulmi 8629
Tetranychidae 2737
Tetranychus urticae 935, 3790, 9058-9059
toxicity
Anthurium andraeanum 780
Ceraeochrysa cubana 10461
Cryptostigmata 3162
Tetranychus urticae 1697, 11731
with tetradifon
control, *Tetranychus* 2835
nontarget effects, soil arthropods 1731

Dicondylus americanus
biology, development 11449
hosts, *Delphacodes lutulenta* 11449

Dicondylus americanus *cont.*
morphology 11449

Dicondylus bicolor
distribution, Czechoslovakia 4405
hosts
Auchenorrhyncha 11450
Delphacidae 4405
Mediterranean countries 11450

Diconocoris hewetti
control, cultural control 10530
Piper nigrum, Indonesia 10530

Dicosadiene, mixtures, attractants, *Helicoverpa armigera* 3833

Dicranognathus nebulosus
control, heat treatment 3991
Quercus leucotrichophora, India 3991

Dicranotropis hamata, parasitoids 6582

Dicrotophos ((*E*)-3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl phosphate)
control
Bactrocera cucurbitae 5760
Euprosterna laesa 1543
Leptopharsa gibbicarina 1543
potatoes, arthropod pests 1683
Stenoma impressella 1543
toxicity
birds 8126
Epilachna ocellata 2872
Epilachna vigintioctopunctata 5846

Dicrurus macrocercus, prey, *Hieroglyphus banian* 3716

Dictionaries
biology 5230
entomology 3218
horticulture 2087
insect viruses 8160

Dictyna coloradensis
biology, development 8422
Centaurea maculosa, habitats, Idaho 8422
prey, *Urophora affinis* 8422

Dictyna major
biology, development 8422
Centaurea maculosa, habitats, Idaho 8422
prey, *Urophora affinis* 8422

Dictyna segregata
cotton, fields, Texas 2906
prey, Aphididae 2906

Dictyoptera
Argentina 11246
biology 11246
books 11246
checklists, Nicaragua 5235
morphology 11246
taxonomy 1000

Diieldrin ((1 α ,2 β ,2 α ,3 β ,6 β ,6 α ,7 β ,7 α)-3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-2,7:3,6-dimethanonaphth[2,3-*b*]oxirene)
control, Isoptera 863
effects
Cladocera 7223
Echinodermata 6198
mice 3186
rats 970, 5201, 10133
nontarget effects
aquatic organisms 2039
evaluation 7302
reviews 7302
pollutants, marine areas 4213
residues
cereal grains 10038
fishes 937, 6137, 10124
man 4194
medicinal plants, commodities 4053
milk 7302
nontarget organisms 8092
snow 8140
soil 11233
streams 7228
Volvariella volvacea 9751
water 980, 5215, 6206, 7223
toxicity, fishes 6174

Dienochlor (1,1',2,2',3,3',4,4',5,5'-decachlorobi-2,4-cyclopentadien-1-yl)
control
Phytonemus pallidus 11781
Tetranychus urticae 6995

Dierama, commodities, *Cormiococcus dieramae*, South Africa 7085

Diethion (see Ethion)

Diethyl maleate, synergism 5191

Diethyl p-nitrophenyl phosphate, residues, sea water 9091

Diethyl trisulfide, effects, *Bruchidius atrolineatus* 7111

Di-2-ethylhexylphthalate, penetration, *Rhizoglyphus echinopus* 4895

Diethyltoluamide, residues, textiles 6020

Diflubenzuron (N-[[[4-chlorophenyl]amino]carbonyl]-2,6-difluorobenzamide)
control
Anthonomus pomorum 8611
Batrachedra amydraula 1544
Cnaphalocrocis medinalis 426
Cydia pomonella 546, 8583
Diptera 10758
Euproctis lunata 796
Lambdina fiscellaria 3005, 7915
Lepidoptera 8681, 10857
Leucoptera malifoliella 3749
Lymantria dispar 11824, 11831
Malacosoma neustria 5165
Plutella xylostella 9765
Pristiphora abietina 8911, 10989
Quercus, insect pests 1802
Spodoptera exigua 594, 5854
sugarbeet, Coleoptera 2856
USSR, *Phyllonorycter populifoliella* 6014
Wiseana 6755
degradation, soil 8144
deposition, apples 4752
detection 9090
drift, effects, determination 9051
effects
Anthonomus grandis 944, 3170, 4924, 5881
Delia radicum 7235
Epilachna vigintioctopunctata 990
insect pests 6213
Locusta migratoria 11336
Manduca sexta 4141
Metarhizium anisopliae, pathogenicity 4141
parasitoids 217
Spodoptera littoralis 3207-3208, 8151-8152
Tenebrio molitor 8938
Thrips palmi 9728
Tribolium castaneum 3063
metabolism, *Spodoptera littoralis* 11159
mixtures
control
Aporia crataegi 3131
Lepidoptera 10857
wheat, insect pests 4627
toxicity, Lepidoptera 3131
mode of action 8151, 11153
nontarget effects
aquatic organisms 2039, 2755
beneficial arthropods 1802
Lymantria dispar, natural enemies 11824
penetration, *Rhizoglyphus echinopus* 4895
residues
forests 7919, 9090
Pinus 10987
resistance, *Cydia pomonella* 2745
synergism 3063, 11159
toxicity
Acari 2880
Chelonus blackburni 1280
Chrysopa pallens 5492
Dysdercus koenigii 7233
Helicoverpa armigera 2007
Lepidoptera 10987
Osmia cornifrons 7733
Pieris brassicae 9051
Scirpophaga incertulas 6740
Spodoptera littoralis 11159, 11209
Tortricidae 5717
Tribolium confusum 4075
with chlorpyrifos, resistance, *Spodoptera littoralis* 2905

Diflubenzuron *cont.*
 with methomyl, resistance, *Spodoptera littoralis* 2905
 with methomyl, nontarget effects, soil arthropods 1731
(Z)-7,7-Difluoro-8-dodecenyl acetate
 attractants, *Cydia molesta* 2226
 synthesis 2226
2,6-Difluoro-N-[[4-[(3-fluorophenyl)methoxy]phenyl]methyl]benzenamine, effects, *Corcyra cephalonica* 4171, 11176
Digitalis purpurea
Aphis armata, German Democratic Republic 343
 pollen, Formicidae, germination 9924
Digitaria ciliaris, Pyralidae, food preferences 11580
Digitaria decumbens, Cercopidae, Brazil 8531
Digitaria sanguinalis, *Dichroplus elongatus* 2403
Digitonin, effects, *Manduca sexta* 10336
Diglyphus begini
 biology, behaviour 7900
 chrysanthemums, habitats 7900
 hosts
Aphis gossypii 10083
Liriomyza trifolii 5912, 7900
 insecticides, pathogenicity 10083
 rearing techniques 5912
Diglyphus isaea
 biology, development 9849
 greenhouses
 Italy 11779
 Netherlands 4536
 hosts
 Agromyzidae 11779
Chromatomyia horticola 9864
Liriomyza 4536, 9849
 pesticides, effects 3135
 sunflowers, fields, Hungary 9864
Diglyphus minoens
 biology, behaviour 5569
 hosts, *Phytomyza lonicerae* 5569
Lonicera gracilipes, habitats, Japan 5569
Digonogastra, taxonomy, synonyms, *Monogonogastra* 1333
Digonogastra grenadensis, taxonomy, from *Ipobracon* 7309
Digonogastra rimac, taxonomy, from *Ipobracon* 7309
2,5-Dihexadecyltetrahydrofuran, attractants, *Apanteles kariyai* 6548
22,23-Dihydroazadirachtin
 degradation 3169
 growth regulators, Noctuidae 11981
 toxicity, *Heliothis virescens* 3169
Dihydrodillapiolone, synergism 5193
(2S,3R,1'R)-2,3-Dihydro-3,5-dimethyl-2-ethyl-6(1'-methyl-2'-oxobutyl)-4H-pyran-4-one, oviposition deterrents, *Lasioderma serricornis* 9106
(2S,3R,1'S)-2,3-Dihydro-3,5-dimethyl-2-ethyl-6(1'-methyl-2'-oxobutyl)-4H-pyran-4-one, oviposition deterrents, *Lasioderma serricornis* 9106
2,3-Dihydro-2-[(4-phenoxy-phenoxy)methyl]-1,4-benzodioxin
 effects, *Galleria* 7979
 toxicity, *Tribolium castaneum* 7979
Dihydropyrans, effects, insects 6956
Dihydroxycloetrin
 mixtures, toxicity, Noctuidae 873
 toxicity, Noctuidae 873
2,4-Dihydroxy-7-methoxy-2H-1,4-benzoxazin-3(4H)-one, toxicity, *Ostrinia nubilalis* 2628
(R,S)-9-(2,3-Dihydroxypropyl)adenine
 effects
Dysdercus cingulatus 5176
Pyrrhocoris apterus 5177
5,6-Dihydroxytryptamine, effects, *Acheta domesticus* 9306
Diiodomethyl p-tolyl sulfone, effects, *Termitomyces* 11485
Dilaridae
 biology 7507
 Spain 7507
 taxonomy 7507

Dill (see *Anethum graveolens*)
Dillenia indica, *Aculops dilleniae*, India 6269
Dilophus
 forests, German Federal Republic 2996
 predators 2996
Dilophus febrilis, distribution, British Isles 2349
DIMBOA, effects, *Diadegma terebrans* 8373
Dimecron (see Phosphamidon)
Dimehypo
 control, rice, insect pests 8503
 toxicity
Auricularia auricula, insect pests 11688
Macrocentrus linearis 7511
Dimehypo jumbo, control, rice, Pyralidae 5639
Dimeromicrus kiesenwetteri (see *Torymoides kiesenwetteri*)
Dimeromyces, hosts, *Cryptolestes ferrugineus* 6037
Dimethoate (*O,O*-dimethyl S-[2-(methylamino)-2-oxoethyl] phosphorodithioate)
 control
Acyrtosiphon pisum 2823
Agromyza cinerascens 2603
Amrasca biguttula 8669
Amrasca devastans 11771
Annona muricata, insect pests 1596
Aonidiella aurantii 781
 Aphididae 1445
Aradus cinnamomeus 1784
Aspidiotus destructor 10666
 aubergines, insect pests 11757
Bactrocera tryoni 7757
Bemisia tabaci 1648, 7879
Brevinnia rehi 2651
Brevicoryne brassicae 4827
Bruchus pisorum 3877
Cajanus cajan, insect pests 3887
Capsicum annuum, insect pests 2892
Cecidomyia 8901
 cereals, insect pests 4615
 Chloropidae 394
Chloropulvinaria polygonata 11678
Coccus viridis 9899
 cotton, insect pests 4919, 5891
Curculio nucum 3773
Cydia funebrana 561, 5740
Cydia pomonella 546
Delia radicum 8674
Diaphorina citri 1578
Dolichotetranychus floridanus 8657
Drosicha dalbergiae 2718
Drosicha mangiferae 7759
Empoasca kraemeri 9784
 field crops, insect pests 1440
 grapes, Hemiptera 1552
Heteropsylla cubana 825
Idioscopus 6851
 Lepidoptera 6970
Lipaphis erysimi 6874, 11699
Lygus 2680
Macrostes purpurata 1605
Maruca testalis 9795
Melanaspis glomerata 2593
Metabolus flavescens 2973
Myzus persicae 1692, 8787
Ophiomyia phaseoli 3875
Oulema 381
Papilio xuthus 8035
Paraphytomyza luteoscutellata 8806
Phyllocnistis citrella 5753
Physokermes jezoensis 5936
Pseudotsuga menziesii, insect pests 5998
Pulvinaria 514
Rhizoglyphus echinopus 1705
Scirtothrips kenyanensis 9902
Sitobion avenae 5602, 8459
Solanum integrifolium, insect pests 9854
Stenchaetothrips biformis 3698
 Tetranychidae 5738
Tetranychus urticae 274
Thrips tabaci 714, 4897, 7829

Dimethoate *cont.*
 control *cont.*
Thysanogyna limbata 5028
 Thysanoptera 3784
Trifolium perenne, insect pests 1511
Unaspis citri 10724
Urentius hystricellus 10865
Uroleucon carthami 2898
 wheat, insect pests 388, 2618, 5606, 7590
 effects
Amblyseius benjamini 8657
Azotus fumipennis 2593
Callosobruchus chinensis 6164
Gladialus psitticinus, pollination 7221
 plant pathogens 11194
Saintpaulia ionantha 9908
 sugarbeet 9824
 filtration 1993
 mixtures
 control
 cotton, insect pests 746
 groundnuts, insect pests 1671
Selenaspidus articulatus 9715
 nontarget effects, predatory insects 9715
 resistance, *Plutella xylostella* 7779
 toxicity
 beneficial insects 3497
Ceraeochrysa cubana 10461
 nontarget effects 6700
Apis mellifera 962, 2435
 beneficial arthropods 5738
Chrysoperla carnea 274
 fishes 8095
 Phytoseiidae 6837
 predatory insects 2618
 residues
Capsicum annuum 5866
 Cucurbitaceae 11705
 resistance
Aphytis melinus 2762
Myzus persicae 673
Phorodon humuli 350
Phytoseiulus persimilis 11439
Rhizoglyphus robini 11748
Scirtothrips citri 5750-5751, 11163
Tetranychus urticae 935
 sorption, soil 2004
 synergism 11688
 toxicity
Aleurocanthus woglumi 4781
Allorhogas pyralophagus 9528
Aphis craccivora 672
Asellus aquaticus 2023
Auricularia auricula, insect pests 11688
 beneficial insects 3497
Ceraeochrysa cubana 10461
Coccinella septempunctata 2476
 Cucurbitaceae 8688
Cycloneda sanguinea 9453, 9721, 10462
 fishes 8123
 Hymenoptera 10458
 insects 9037
Leptocoris acuta 11178
Lipaphis erysimi 3172, 5179, 6872
Liriomyza trifolii 633
Melanoplus sanguinipes 4440
Pieris brassicae 9051
Rhynchophorus cruentatus 9911
Spilosoma obliqua 7783
Tetranychus urticae 11731
Trichogramma brasiliense 11451
 wheat 11194
 with chlorpyrifos, control, *Quadrastipidius perniciosus* 11652
 with deltamethrin, control, *Quadrastipidius perniciosus* 11652
 with mineral oils
 control, *Unaspis citri* 10724
 toxicity, *Cycloneda sanguinea* 9453, 10462
Dimethoxon (see Omethoate)
Dimethoxypropenylbenzenes, nontarget effects, rats 7196

- Dimethrin** ((2,4-dimethylphenyl)methyl 2,2-dimethyl-3-(2-methyl-1-propenyl) cyclopropanecarboxylate)
effects, aquatic organisms 7194
- Dimethyl disulfide**, attractants, *Diadromus pulchellus* 235
- Dimethyl-(4-ethoxyphenyl)silylmethyl 3-phenoxybenzyl ether**, toxicity, insects 940
- Dimethyl 3-methyl-4-nitrophenyl phosphate**, metabolism, *Chilo suppressalis* 10111-10112
- Dimethyl trisulfide**, effects, *Bruchidius atrolineatus* 7111
- (E)-3,3-Dimethyl- Δ^{1a} -cyclohex-aneacetaldehyde**, mixtures, pheromones, *Anthonomus grandis* 65
- (Z)-3,3-Dimethyl- Δ^{1a} -cyclohex-aneacetaldehyde**, mixtures, pheromones, *Anthonomus grandis* 65
- (Z)-3,3-Dimethyl- Δ^{1b} -cyclohexaneethanol**, mixtures, pheromones, *Anthonomus grandis* 65
- 2,6-Dimethyl-3,5-diethoxycarbonyl-4-(Na carboxylate)-1,4-dihydropyridine**, mutagens, *Drosophila melanogaster* 7384
- Dimethyl-4-ethoxyphenyl-3-(4-fluoro-3-phenoxyphenyl)propylsilane**, toxicity, insects 8084
- Dimethyl-4-ethoxyphenyl-1-(3-(4-fluoro-3-phenoxyphenyl)propyl)silane**, analogues, toxicity, *Trichoplusia ni* 9061
- 5,9-Dimethylheptadecane**
mixtures, pheromones, *Leucoptera malifoliella* 8598
synthesis 8598
- 2,6-Dimethyl-1,5-heptadien-3-ol**, pheromones, *Pseudococcus comstocki* 529
- 2,4-Dimethyl-N-(3-methyl-2(3H)-thiazolylidene) benzenamine**, control, Acari 1250
- 5,5-Dimethyl-2-(2-methylphenyl)-3-oxo-1-cyclohexen-1-yl 2-ethylhexanoate**, control, *Tetranychus macfarlanei* 2794-2795, 3841
- 2,4-Dimethyl-N-(3-methyl-2(3H)-thiazolylidene)benzenamine**
control
Apis mellifera, ectoparasites 7496
Varroa 7492
Varroa jacobsoni 10479
effects, *Apis mellifera* 6523
- 11,15-Dimethylnonatriacontane**, attractants, *Trichogramma nubilale* 7525
- 13,17-Dimethylnonatriacontane**, attractants, *Trichogramma nubilale* 7525
- 15,19-Dimethylnonatriacontane**, attractants, *Trichogramma nubilale* 7525
- (3E)-4,8-Dimethyl-1,3,7-nonatriene**, attractants, Phytoseiidae 7794
- 5,9-Dimethyloctadecane**
mixtures, pheromones, *Leucoptera malifoliella* 8598
synthesis 8598
- 3,7-Dimethyl-2,7-octadienyl propionate**
attractants, *Quadraspidiotus perniciosus* 7240
synthesis 7240
- 3,7-Dimethyl-6-octenal**, attractants, *Helicoverpa armigera* 6307
- (4E)-4,6-Dimethyl-4-octen-3-one**, mixtures, pheromones, *Manica rubida* 1234
- (2S,3R,7R)-3,7-Dimethylpentadecan-2-ol**, pheromones, Diprionidae 2216
- (2S,3S,7S)-3,7-Dimethylpentadecan-2-ol**, pheromones, Diprionidae 2216
- 2,2-Dimethyl-3-(3-phenoxybenzyloxy) propanal**, derivatives, toxicity, arthropods 11963
- 3,5-Dimethylphenyl methylcarbamate**, herbicides, compatibility 1462
- O,O'-Dimethylphosphorodithioate**, effects, rats 5197
- Dimethylpropenylbenzenes**, mutagenicity, bacteria 7197
- N-(2,2-Dimethylpropyl)carbamoyleallyl phosphonate**, derivatives, toxicity, insects 11147
- Dimilin** (see Diflubenzuron)
- Dimlor** (see Chlorpyrifos, with dimethoate)
- Dimocarpus longan**
Conopomorpha cramerella, Taiwan 10737
Epirimerus dimocarpi, China 5947
orchards, parasitoids, Taiwan 10737
- Dimorphopterus spinolae**, *Phyllostachys viridis*, China 8440
- Dinapate wrightii**, taxonomy 9150
- Dinaraea aequata**
biology 4979
Pinus sylvestris, forests, Poland 4979
Tomicus piniperda, interactions 4979
- Dinarmus**
Africa 6592
hosts, stored products pests 6592
taxonomy 6592
- Dinarmus acutus**
hosts, *Acanthoscelides perforatus* 8784
South Dakota 8784
- Dinarmus laticeps**
biology, behaviour 1343
hosts, Bruchidae 1343
- Dinarmus vagabundus**
biology, reproduction 1900
hosts, *Callosobruchus maculatus* 1900
- Dinenympha mukundai**, hosts, *Reticulitermes tirapi* 4545
- Dinenympha rayi**, hosts, *Reticulitermes tirapi* 4545
- Dinobuton** (1-methylethyl 2-(1-methylpropyl)-4,6-dinitrophenyl carbonate)
control
Cydia pomonella 545
Tetranychidae 5162, 11643
toxicity, *Cycloneda sanguinea* 10462
- Dinocampus coccinellae**
biology 6530
hosts, Coccinellidae 6530
- Dinocampus terminatus**
hosts, Coccinellidae 276
USSR 276
- Dinocap** (2(or 4)-isooctyl-4,6(or 2,6)-dinitrophenyl 2-butenolate)
nontarget effects, predatory insects 520
residues, foods 10224
- Dinoderus minutus**
control, insecticides 9514
Phyllostachys 9514
- Dinoseb** (2-(1-methylpropyl)-4,6-dinitrophenol)
control, *Resseliella theobaldi* 3762
- Dinorthombium pandorae**, physiology, chemical composition 1125
- Diodontus**
North America 4255
taxonomy 4255
- Diolcogaster facetosa**
biology, behaviour 5819
hosts, *Plathyrena scabra* 5819
parasitoids 5819
soyabeans, fields, Kentucky 5819
- Diomus**, control, *Panonychus ulmi* 2733
- Dione juno juno**
food plants, Brazil 8335
parasitoids 8335
- Dioryctria**
control, insecticides 6007
Pinus monticola, Idaho 6006
Pinus ponderosa, Nebraska 3003
Pseudotsuga menziesii, California 6007
taxonomy 5990
- Dioryctria abietella**
biology, environmental factors 5992
physiology, sex pheromones 5996
Picea, Europe 5996
Picea abies, France 5992
- Dioryctria abietivorella**
control, insecticides 2999
morphology, larvae 5935
North America 5935
Picea engelmannii, Utah 3036
Pseudotsuga menziesii, California 2999
- Dioryctria amatella**
biology, behaviour 10340
morphology, larvae 5935
North America 5935
- Dioryctria auranticella**
Pinus ponderosa
Arizona 11823
USA 5991
- Dioryctria clarioralis**
morphology, larvae 5935
North America 5935
- Dioryctria disclusa**
morphology, larvae 5935
North America 5935
- Dioryctria horneana**, *Pinus cubensis*, Cuba 4978
- Dioryctria mendacella**
Pinus, China 5990
taxonomy 5990
- Dioryctria merkeli**, *Dioryctria taedivorella*, differentiation 4994
- Dioryctria pryri**
Pinus, China 5990
taxonomy 5990
- Dioryctria pygmaeella**
morphology, larvae 5935
North America 5935
- Dioryctria reniculelloides**
control, insecticides 7941
Picea mariana, Ontario 7941
- Dioryctria rossi**, *Pinus ponderosa*, USA 5991
- Dioryctria rubella**, *Pinus*, China 5990
- Dioryctria splendidella** (see *D. sylvestrella*)
- Dioryctria sylvestrella**
biology 1846
Pinus, China 5990
Pinus pinaster, France 1846
taxonomy 5990
- Dioryctria taedivorella**
Dioryctria merkeli, differentiation 4994
morphology, larvae 5935
North America 5935
Pinus taeda, USA 4994
taxonomy, new species 4994
- Dioryctria yatesi**, *Pinus pungens*, Virginia 4008
- Diospilus capito**
control, *Meligethes aeneus* 5786
Finland 5786
- Diospyros kaki** (see Persimmons)
- Dioxabenzofos** (2-methoxy-4H-1,3,2-benzodioxaphosphorin 2-sulfide)
insecticidal properties 10121
synthesis 2008, 8077
toxicity, *Osmia cornifrons* 7733
- Dioxacarb** (2-(1,3-dioxolan-2-yl)phenyl methylcarbamate)
control, *Solanum integrifolium*, insect pests 9854
- 1,7-Dioxaspiro[5.5]undecane**, attractants, *Bactrocera oleae* 577
- Dioxins**, toxicity, *Drosophila melanogaster* 8066
- Diparopsis castanea**, cotton, Tanzania 750
- Diparopsis watersi**
control, insecticides 3939
cotton, Cameroon 3939
- Dipel** (see *Bacillus thuringiensis* subsp. *kurstaki*)
- Diphenamid**, nontarget effects, *Myzus nicotianae* 2933
- Diphos** (see Temephos)
- Diphyllaphis mordwilko**
biology 2979
Quercus cerris, Italy 2979
- Diplazon**
cauliflowers, fields, India 10772
hosts, *Eupeodes confrater* 10772
- Diplazon laetatorius**
cauliflowers, fields, India 10772
hosts
Eupeodes confrater 10772
Syrphidae 6873
India 6873
- Diplazon multicolor** (see *D. tetragonus*)
- Diplazon tetragonus**
cauliflowers, fields, India 10772
hosts, *Eupeodes confrater* 10772
- Diploclisia glaucescens**
extracts
insecticidal properties 9499
toxicity, *Aphis craccivora* 1412
- Diplococcus**, hosts, Lepidoptera 6745

- Diplogynium oryctae**
India 2144
Oryctes rhinoceros, interactions 2144
taxonomy, new species 2144
- Diplolepis fusiformans**
Arizona 9915
parasitoids 9915
Rosa arizonica, galls 9915
- Diplolepis rosae** 2558
parasitoids 2558
Rosa canina, galls 2558
- Diplolepis spinosa**
Arizona 9915
parasitoids 9915
Rosa arizonica, galls 9915
- Diplopoda**
biology
migration 1156
phenology 3977
reproduction 122
Canada 3247
cereals
Africa 2591
fields, UK 371
UK 10190
control, pesticides 11738
distribution
Canada 3227
Malta 7433
ecology, population dynamics 10017
Florida 3977
forests, France 10017
Guadeloupe 1156
meadows, Switzerland 463
molluscicides, effects 371, 463
monitoring, traps 3977
pathogens 8980
sugarbeet 11738
German Federal Republic 4873
taxonomy 3227
keys 3247
- Diploptera punctata**, growth regulators, effects 9034
- Diploschema rotundicollis**
attractants 4776
biology 4776
Citrus, Brazil 4776
control 4776
- Diplura**
monitoring, traps 2400
prey, Nematoda 10639
soil, Colorado 10639
USSR 2400
- Diprion nanhuaensis**
China 9954
control, microbial pesticides 9954
- Diprion pini**
biology
development 790
diapause 9291
environmental factors 9317
ecology, population dynamics 3045, 5978
forest trees, USSR 3045
heavy metals, pollutants 5056
monitoring 7932
parasitoids 3045
pathogens 1826
Pinus sylvestris 5056
Czechoslovakia 5978
France 790
German Democratic Republic 7932
- Diprion similis**, pathogens 1826
- Diprionidae**
ecology, population dynamics 5978
physiology, pheromones 2216
Pinus sylvestris, Czechoslovakia 5978
- Dipropyl disulfide**
attractants
Delia antiqua 716, 9844
Diadromus pulchellus 235
Lepidoptera 721
- Dipropyl trisulfide**, attractants, Lepidoptera 721
- Dipropyl trisulfide monoxide**, attractants, Lepidoptera 721
- Dipsacus fullonum**, *Macrosiphum rosae*, German Federal Republic 9918
- Dipsacus sylvestris**, *Macrosiphum rosae*, German Federal Republic 9918
- Diptacus gigantorhynchus complex**
apples, Ontario 8586
ecology, population dynamics 8586
predators 8586
- Diptera**
Antarctica 1187
apricots, India 11654
Arizona 10440
Bacillus thuringiensis, toxicity 4120
bibliographies 10167
biochemistry, proteinases 8224
biology 4049, 4254, 7259, 7264, 7268
behaviour 9507, 11518
Brazil 270, 6525
British Isles, books 7264
cabbages, pollination 9772
cell lines 5111
insecticides, toxicity 8014
cereals, fields, UK 371
checklists, Nicaragua 5235
Chile 4400, 5231
cocoa, plantations, Costa Rica 3946
conifers, Romania 6002
conservation 6397
control 7259
insecticides 5606, 10758, 10818
pheromones 7168
cotton, resistance 7858
crops, Brazil 7259
Czechoslovakia 6451
bibliographies 12014
distribution, California 1984
ecology 1187, 9613
population dynamics 11690
evolution 6277
fishes, commodities 4049
forests
New Zealand 7018
Poland 5067
fruits, commodities, detection 4080
fungi 4817
German Federal Republic 5061
grasslands
German Democratic Republic 9613
UK 8535
Hibiscus, India 8768
hosts
Detmeria euxestae 270
Uraba lugens 8915
India 178
insecticides
effects 5067, 8535
pathogenicity 7155
toxicity 7123, 10109
Israel, books 1174
Italy 3095
Japan 3415
Larix occidentalis, USA 6011
Lavandula latifolia, pollination 9507, 11518
Mesostigmata, interactions 2094
molluscicides, effects 371
monitoring, traps 178, 2399-2400, 3415, 3946, 4859
morphology 1042, 4254, 6277, 7264
antennae 6278
wings 3261, 4284
mushrooms
Netherlands 10758
New Jersey 11690
Nearctic Region 4225
Neodiprion sertifer, interactions 5006
Nicaragua 9454
North America 9167
Oceania, books 3219
ornamental plants, Western Australia 11778
Palaeartic Region 2519
books 5232
parasitoids 2519, 6002
pathogens 3095, 7130, 11099
pheromones 8161
reviews 7340
physiology
development 32
flight 8227-8228
senses 2253, 8250
Picea abies, Poland 5986
plant extracts, effects 3151
plant oils, attractants 3946
plants, galls, books 10197
- Diptera cont.**
Populus, Poland 7953
predators 374, 4544, 6525, 8777, 10440
prey
conifers, insect pests 5985
Hylesinus varius 5061
Nematoda 10639
Quercus, forests, Poland 7050
rodenticides, toxicity 8124
soil, Colorado 10639
South Australia 8915
soybeans, Argentina 4859
Spain 9507, 11518
sugarbeet
fields, German Federal Republic 4873
Italy 10818
Sweden 5006
Switzerland 374
taxonomy 1000, 3219, 3415, 4225, 4254, 5232, 8915, 9167, 10197
keys 7264, 12022-12023
trees, China 5989
tyres, South Africa 8318
USSR 2399-2400, 3460
books 12022-12023
Utah 3492
weeds, Wyoming 6654
wheat
resistance 1439, 10574
Romania 5606
Ziziphus spina-christi, Egypt 5744
- Dipterex** (see Trichlorfon)
- Dipterocarpaceae**, insect pests, Indonesia 7908
- Dipterocarpus kerrii**, extracts, toxicity, *Zootermopsis angusticollis* 800
- Dipterocarpus pilosus**, *Cryphalus diptero-carpi* 804
- Directories**
Acari, research workers, Australasia 6232
agricultural research 6223
biology, libraries 5233
pesticides, monitoring, organizations 7280
plant protection
Europe 10199
research 2123
- Dirhinus anthracis**
biology, development 6532
hosts, *Exorista sorbillans* 6532
Japan 5444
taxonomy 5444
- Dirioxa**, *Dysoxylum gaudichaudianum*, Queensland 1875
- Dirioxa australina**, *Dysoxylum gaudichaudianum*, Queensland 1875
- Dirphys magniclavus**, taxonomy, from *Encarsia* 2460
- Disa** (see Diflubenzuron, with methomyl)
- Discoptila clauseri**, distribution, Italy 5416
- Diseases**, agricultural development, conferences 6239
- Disonychia punctigera**
Coronilla varia, Arkansas 3605
parasitoids 3605
- Disparlure** (*cis*-2-decyl-3-(5-methylhexyl) oxirane)
attractants
Lymantria dispar 10952
Lymantria monacha 8824
nontarget effects 793
pheromones
Lymantria dispar 132
Lymantria monacha 2951
- Distatrix papilionis**
Citrus, orchards, India 2761
hosts, *Papilio* 2761
parasitoids 2761
- Disteniinae**, Taiwan 4395
- Distribution**
arthropod pests 6454-6455, 6457-6459
insect pests 6456, 6460
- Disulfoton** (*O,O*-diethyl S-[2-(ethylthio) ethyl] phosphorodithioate)
control
aubergines, insect pests 7840, 11757-11758
Brachycorynella asparagi 1608

- Disulfoton** *cont.*
control cont.
 cotton, insect pests 4932-4933
 jute, arthropod pests 2928
Lipaphis erysimi 6854, 11699
Nasonovia ribisnigri 597
 Noctuidae 5813
 onions, insect pests 9845
 rice, insect pests 10628
 sugarcane, insect pests 4611
effects
 cereals 2605
 potatoes 1681
Vigna radiata 4852
 mixtures, effects, potatoes 1681
 nontarget effects, soil, microorganisms 4932
 pollutants, rivers, Europe 11223
residues
 asparagus 1608
 aubergines 7843
 rivers 9095
- Disyston** (see Disulfoton)
- Dithane M-45** (see Mancozeb)
- Dithiocarbamate fungicides**
nontarget effects
Kampimodromus aberrans 5715
 Phytoseiidae 9665
- Ditrysia**
 phylogeny 5
 taxonomy 4259
- Ditylenchus dipsaci**, vectors, *Deroceras reticulatum* 483
- Diuraphis noxia**
 biology 8469
 development 3658
 environmental factors 2614, 5593
 cereals 9543
 Ethiopia 10554
 North America 4601
 Texas 2612
 control, cultural control 5796
 distribution
 Canada 9543
 models 10560
 food plants 3658, 4601
 grasses, Washington 10635
 natural enemies, augmentation 5796
 parasitoids 2612
 pathogens 11905
 models 9523
 triticale
 resistance 10557
 varietal susceptibility 4617
 wheat
 Australia, models 10560
 resistance 9541
 South Africa 5796, 6706, 8469, 11536
 Texas 5603
- Diurnea fagella**
 biology 8832
Fagus sylvatica, Spain 8832
 morphology 8832
- Diversinervus cervantesi**, taxonomy, synonyms, *Phasmenecyrtus indicus* 2459
- Diversinervus elegans**, taxonomy, synonyms, *Diversinervus intermedius* 2459
- Diversinervus intermedius**, taxonomy, synonyms, of *Diversinervus elegans* 2459
- Dizicotol** (see Diazinon)
- DM mixture**, control, *Malacosoma neustria* 5165
- DMDT** (see Methoxychlor)
- DNOC** (2-methyl-4,6-dinitrophenol)
control
 fruits, arthropod pests 526
 pome fruits, arthropod pests 10693
- Dociostaurus maroccanus**, Hungary 11418
- (8E,10E)-8,10-Dodecadienal**, attractants, *Helicoverpa armigera* 6307
- (8E,10E)-8,10-Dodecadien-1-ol**
 attractants, *Cydia pomonella* 7239, 7241, 11651
 effects, *Cydia pomonella* 6310-6311
 mutagenicity, yeasts 11651
 pheromones, *Cydia pomonella* 555, 6309, 9684
 synthesis 6309
- (8E,10E)-8,10-Dodecadien-1-ol** *cont.*
 mixtures
 attractants, *Cydia nigricana* 3876
 pheromones, *Cydia pomonella* 3794
- (3Z,6Z,11R)-3,6,11-Dodecadien-11-olide**, mixtures, pheromones, *Oryzaephilus* 9207
- (3Z,6Z)-3,6-Dodecadien-11-olide**, pheromones, *Oryzaephilus surinamensis* 67, 857
- (3Z,6Z)-3,6-Dodecadienolide**
 mixtures, pheromones, *Oryzaephilus surinamensis* 9207
 pheromones, *Oryzaephilus surinamensis* 67, 857
- (7E,9Z)-7,9-Dodecadienyl acetate**
 pheromones, *Lobesia botrana* 2715, 9205
 synthesis 2715, 9205
- (7Z,9Z)-7,9-Dodecadienyl acetate**, pheromones, *Epinotia tedella* 3024
- (8E,10E)-8,10-Dodecadien-1-yl acetate**, attractants, *Cydia nigricana* 7798
- (8E,10E)-8,10-Dodecadienyl acetate**, mixtures, attractants, *Cydia nigricana* 3876
- (8E,10E)-8,10-Dodecadienyl acetate**, mixtures, pheromones, *Cydia caryana* 7719
- (8E,10Z)-8,10-Dodecadienyl acetate**, mixtures, pheromones, *Cydia caryana* 7719
- n-Dodecane**, mixtures, pheromones, *Erthesina fullo* 7069
- Dodecanoic acid**, effects, *Adoxophyes orana* 6803
- Dodecan-1-ol acetate**, mixtures, effects, *Cotesia marginiventris* 2473
- 1-Dodecanol**, mixtures, pheromones, *Cydia pomonella* 3794
- (E)-8-Dodecen-1-ol**, mixtures, attractants, *Cydia* 5740
- (Z)-7-Dodecen-1-ol acetate**, mixtures, effects, *Cotesia marginiventris* 2473
- (Z)-9-Dodecen-1-ol acetate**
 mixtures
 effects, *Cotesia marginiventris* 2473
 pheromones, *Yponomeuta malinellus* 7736
- (Z)-7-Dodecen-1-ol**, mixtures, pheromones, *Autographa gamma* 7680
- (Z)-7-Dodecenol**
 analogues, pheromones, *Trichoplusia ni* 10276
 pheromones
Agrotis segetum 8540
 inhibitors, *Ochropleura fennica* 9209
- (3Z,11R)-3,11-Dodecen-11-olide**, mixtures, pheromones, *Oryzaephilus mercator* 9207
- Dodecenyl acetate**
 control, *Eucosma sonomana* 10928
 pheromones, *Cossus cossus* 557
- (E)-10-Dodecenyl acetate**, mixtures, attractants, *Cydia nigricana* 3876
- (Z)-5-Dodecenyl acetate**
 mixtures, pheromones, *Trichoplusia ni* 8709
 pheromones, inhibitors, *Ochropleura fennica* 9209
- (Z)-7-Dodecen-1-yl acetate**, mixtures, pheromones, *Autographa gamma* 7680
- (E)-7-Dodecenyl acetate**, attractants, *Cryptophlebia leucotreta* 3814
- (Z)-7-Dodecenyl acetate** (see Looplure)
- (E)-8-Dodecenyl acetate**
 attractants, *Cydia strobilella* 10007
 mixtures
 attractants
Cryptophlebia leucotreta 3814
Cydia molesta 9697
 pheromones, *Cydia* 7727
- (Z)-8-Dodecenyl acetate**
 mixtures
 attractants
Cryptophlebia leucotreta 3814
Cydia 5740
Cydia molesta 9697
 pheromones
Cydia 7727
- (Z)-8-Dodecenyl acetate** *cont.*
 pheromones *cont.*
Cydia molesta 2226
- (E)-9-Dodecenyl acetate**
 inhibitors, pheromones, *Ostrinia nubilalis* 66
 mixtures, pheromones, *Argyrotaenia velutinana* 7344
 pheromones, *Zeiraphera* 3023
- (Z)-9-Dodecenyl acetate**, inhibitors, pheromones, *Ostrinia nubilalis* 66
- Dodecyl acetate**
 pheromones
Cydia 7727
Sesamia nonagrioides 408
- Dodine**, toxicity, *Heterorhabditis bacteriophora* 8981
- Dogwood** (see *Cornus florida*)
- Dolerinae**
 biology 7589
 cereals, Poland 7589
- Dolerus**
 biology 7589
 cereals, Poland 7589
- Dolichoderinae**, distribution, Chile 10424
- Dolichogenidea**
 hosts, *Hydrellia griseola* 7645
 rice, fields, Queensland 7645
- Dolichogenidea laevisima**, taxonomy, synonyms, *Dolichogenidea tersus* 265
- Dolichogenidea tersus**, taxonomy, synonyms, of *Dolichogenidea laevisima* 265
- Dolichopodidae**, forests, Poland 7048
- Dolichos biflorus**, *Ophiomyia centrosema* 2833
- Dolichos lablab** (see *Lablab purpureus*)
- Dolichosoma simile**, Greece 4403
- Dolichotetranychus floridanus**
 control, acaricides 8657
 pineapples, Queensland 8657
- Dolichothrips reuteri**
 biology 3637
 control 3637
Piper nigrum, India 3637
 taxonomy, synonyms, *Liothrips karnyi* 3232
- Dolichovespula**
 distribution, Indiana 10451
 taxonomy 2492, 10451
- Dolichovespula media**, distribution, UK 2363
- Dolichovespula norvegica**
 ecology, habitats 2493
 UK 2493
- Dolichovespula saxonica**
 distribution, UK 2363, 2492
 parsnips, fields 2492
- Dolichovespula sylvestris**
 ecology, habitats 2493
 UK 2493
- Dolycoris**
 parasitoids 5933
Pinus, Italy 5933
- Dolycoris baccarum**
 biology, diapause 4362
 Norway 4362
- Dolycoris indicus**
 onions, India 8753
 sorghum, Africa 3717
- Dominican Republic**
Bemisia tabaci 5170
Neolasioptera rostrata 3618
- Doratifera quadriguttata**, *Eucalyptus*, Australia 11005
- Dorathithynnus aliciae**
 forest trees, Australia 17
 taxonomy, new species 17
- Dorathithynnus althoferi**
 forest trees, Australia 17
 taxonomy, new species 17
- Dorathithynnus kateae**
Eucalyptus, Australia 17
 taxonomy, new species 17
- Dorisiana drewseni**
 coffee, Brazil 9894
 morphology 9894
- Dorisiana viridis**
 coffee, Brazil 9894
 morphology 9894

Doronicum, *Uroleucon doronici*, Europe 9919

Doronomyrmex kutteri
biology, behaviour 11422

hosts, *Leptothorax acervorum* 11422

Dorotheanthus bellidiformis, pollen, food, predatory mites 4515

Doru lineare

control, insecticides 4666
rice, Brazil 4666

Doru luteipes

biology 5623
insecticides, effects 5623
maize, fields, Brazil 5623
prey, *Spodoptera frugiperda* 5623

Doryctobracon areolatus

distribution, Costa Rica 4479
hosts, Tephritidae 4479

Doryctobracon crawfordi

distribution, Costa Rica 4479
hosts, Tephritidae 4479

Dorylinae

biology 5428
behaviour 10428

Dorylus orientalis

biology 9737
control, insecticides 9737
food plants, China 9737

Dorynium pentaphyllum, *Cyrtosocus pustulatus*, Spain 8830

Douglas fir (see *Pseudotsuga menziesii*)

DPX 3247-1, control, Tortricidae 536

Draeculacephala minerva

grapes, California 1549
plant pathogens, transmission 1549

Drainage, effects, invertebrates 10354

Drasterius, pathogens 9007

Draza (see *Methiocarb*)

Drechslera poae, insecticides, effects 9607

Drechslera sorokiniana (see *Cochliobolus sativus*)

Drepanacra binocula, Australia 228

Drepanocassis profana

biology 5562
food plants 5562
Hyptis suaveolens, Brazil 5562

Drepanosiphinae, taxonomy 2967

Drepanosiphum platanoidis

models 269
parasitoids 269

Drepanothrips reuteri

biology 11624
grapes, Switzerland 10683, 11624
predators 11624

Dreyfusia

biology 9987
forest trees 9987

Dreyfusia nordmannianae

biology 9987
forest trees 9987

Dried fish, *Dermestes maculatus* 6017

Dried fruit, *Vitula edmandsii* 4084

Drimys winteri, *Silviella*, Chile 2146

Drinking water

insecticides, residues 2056, 2061, 6178, 6181-6182, 9348
pesticides, residues 7214

Drosicha dalbergiae

almonds, India 2718, 8578, 9671
control, insecticides 2718, 8578

Drosicha mangiferae

biology 11679
behaviour 10743
control

cultural control 10744
insecticides 5764, 7759
microbial pesticides 4801
food plants, India 4801, 5768
guavas, India 5764
mangoes 10743
India 7759, 10744, 11679
pathogens 4801

Drosicha stebbingi

control, insecticides 5769
mangoes, Pakistan 5769

Drosophila

biochemistry
cuticle 2222
glucosides 3047
biology
behaviour 10332, 11372

Drosophila cont.

biology cont.

development 11251
environmental factors 8287
reproduction 10341-10342

Burma 150

cell cultures 1099

cell lines 3216

hormone antagonists, effects 11236
pathogens 1944

chemicals, mutagenesis 11956

distribution, Mauritius 3438

ecology 10992

population dynamics 2153

ethyl methanesulfonate, mutagenesis 11957

evolution 5271, 8287

figs, Iran 566

food plants, Netherlands 9673

fungi 4817

genetics

chromosomes 9278

conferences 3355

gene expression 11355

genes 9275

RNA 5348

habitats, Iowa 10992

herbicides, toxicity 10314

India 7

indicator species, climatic change 5376

mutagens, effects 10098

nematicides, effects 6185

parasitoids 9673

physiology

enzymes 9200

muscles 4319

nervous system 1099, 3216

plant pathogens, transmission 566

predators 1336

Queensland 5267

songs 10332

taxonomy 5267, 11617

Drosophila albomicans

distribution, Japan 3417

evolution 4276

genetics, reproduction, isolation 4276

habitats 3417

Drosophila aldrichi

biology, behaviour 128

yeasts, attractants 128

Drosophila ananassae

physiology

enzymes 5290

pheromones 68

Drosophila auraria

ecdysterone, effects 7389

genetics, gene expression 7389

morphology, digestive system 7315

Drosophila bipectinata, physiology, pheromones 68

Drosophila busckii

Australian Capital Territory 6779

ecology, distribution 6779

monitoring, traps 6779

pheromones 5298

tomatoes, commodities, damage 7990

Drosophila buzzatii

biology, behaviour 128

Cactaceae 10525

physiology, nutrition 10525

yeasts, attractants 128

Drosophila C virus, hosts, *Drosophila melanogaster* 4092

Drosophila flavohirta

Apis mellifera, interactions 2992

control, biological control 2992

Eucalyptus 2992

New South Wales 2992

South Africa 2992

Drosophila funebris

biology, diapause 125

Japan 125

physiology, secretions 3338

Drosophila hydei

Australian Capital Territory 6779

ecology, distribution 6779

factories, Hungary 865

genetics 6382

DNA 6381

heterozygosity 865

monitoring, traps 6779

Drosophila immigrans

Australian Capital Territory 6779

ecology, distribution 6779

genetics, genes, enzymes 6385

monitoring, traps 6779

predators 11441

Drosophila latifasciaeformis, distribution, Cuba 6475

Drosophila longivittata

fruits, India 10659

taxonomy, new species 10659

Drosophila malerkotliana

distribution

Cuba 6475

Mexico 6475

Drosophila mauritiana

habitats, Mauritius 3438

pheromones 1083

physiology, secretions 3338

taxonomy 3438

Drosophila megagenys

parasitoids 10509

Pteridium esculentum, New South

Wales 10509

Drosophila melanogaster

Australian Capital Territory 6779

biochemistry

antigens 7374

glucosides 3047

polyamines 6350

biology 7722

behaviour 3383, 4363, 5022, 5351,

5367, 5722, 6411, 6556, 7408,

8251, 11372

competition 11378

development 1055, 4305, 7329,

10262

egg hatchability 8281

environmental factors 136, 5376,

8282

lifespan 1152, 8280

migration 7708

reproduction 1153, 8279

Cactaceae 10525

California 5722

cell cultures 1099

cell lines 98

growth regulators, effects 7326

metabolic inhibitors, effects 11335

chemicals, assays 1201

cold resistance 6403

control, plastic film 3077

diets 5190

dioxins, toxicity 8066

Drosophila simulans, hybridization

4297

ecology

distribution 6779

population density 2336

population dynamics 1202, 4092

electric field, effects 4320

evolution 5272

factories, Hungary 865

forests, Brazil 5022

fruits 5722

fungicides, effects 5190, 8078

genetics 9274, 9276-9277

chromosomes, analysis 3346

development 9273

gene expression 51, 7326

genes 7395

activity 11353-11354

loci 7381

locomotion 5351

proteins 7378

vitellogenins 3354

genotypes 3383

growth regulators, resistance 7231

heterozygosity 865

mutations 6065

population genetics 9280-9281

selection 2292

gravity, effects 8279-8281

growth regulators

resistance 7231

toxicity 4215

heavy metals, metabolism 8258

imidazoles, effects 11303

indicator species, water pollution 163

insecticides

effects 2012

- Drosophila melanogaster* cont.**
insecticides *cont.*
mutagenicity 2013, 11165
toxicity 6065, 11963
mangoes, commodities 3077
models 1202
monitoring 5022
traps 6779
morphology
reproductive organs 7317
trachea 10260
mutagens 7384-7385
nuclear energy, effects 7722
orchards, Maryland 7708
parasitoids 2992
pathogens 4092, 6070, 6086, 7317,
8023, 8974
pheromones 70
physiology
actin 7329
cuticle 2209, 4314
development 4290
diapause 10311
endocrine system 94, 97-98, 100,
1117, 5333, 6359, 7353,
11332, 11354
environmental factors 4360, 6442
enzymes 51, 1065-1068, 2199, 8251,
11303
flight 8227
membranes 55, 3357
metabolism 4305
muscles 3301
nervous system 1099, 4320, 5320,
9230
nutrition 10525
proteins 2279, 3343
reproduction 2186, 4297
secretions 3338
senses 8249-8250
vitellogenesis 2270
predators 4519, 6556
rearing techniques 6500
taxonomy 3438
toxins, effects 4313
Tunisia 6411
uses, reviews 10375
- Drosophila melanogaster* group**
biochemistry, cuticle 2222
biology, environmental factors 3371
- Drosophila mojavensis***
Cactaceae 10525
physiology, nutrition 10525
plant extracts, effects 344
- Drosophila nasuta***
evolution 4276
genetics, reproduction, isolation 4276
- Drosophila notha***
parasitoids 10509
Pteridium esculentum, New South
Wales 10509
- Drosophila obscura* group**, biochemistry,
cuticle 2222
- Drosophila pseudoobscura***
genetics 6374
Mexico 6374
physiology, enzymes 3278
- Drosophila repleta***, biochemistry, cuticle
2222
- Drosophila sechellia***, physiology, secretions
3338
- Drosophila siamiana***, distribution, India
6469
- Drosophila simulans***
Australian Capital Territory 6779
biology 7722
behaviour 5722
California 5722
Drosophila melanogaster, hybridization
4297
ecology, distribution 6779
fruits 5722
monitoring, traps 6779
nuclear energy, effects 7722
pathogens 4128, 4143-4144
physiology
metabolism 3286
reproduction 4297
secretions 3338
taxonomy 3438
- Drosophila spinifrons***
food plants, Africa 11617
taxonomy, new species 11617
- Drosophila subobscura***
apples 10698
ecology, population dynamics 517
genetics
chromosomes 5353
genes 5352
grapes, German Federal Republic 517
plant pathogens, transmission 10698
South America 5353
Switzerland 5352
- Drosophila sulfurgaster***, distribution,
India 7
- Drosophila tripunctata***
Arion, interactions 5778
biology 5778
mushrooms, New Jersey 5778
- Drosophila virilis***
genetics, genes 7395
physiology
endocrine system 1116
enzymes 1067
- Drosophila virilis* group**, biochemistry,
cuticle 2222
- Drosophila yakuba***
genetics, genes, position 3348
pheromones 1083
- Drosophilidae**
Agaricus bisporus, New Jersey 10757
distribution, Europe 6257
ecology 10757
India 7
parasitoids 11466
Queensland 5267
taxonomy 7, 5267, 10238
USSR 11466
- Drought resistance**, groundnuts, effects,
insect pests 6908
- Drugs**
insect pests
China 10042
natural enemies 10042
- Dryocopus martius***, prey, Siricidae 9983
- Dryinidae**
hosts
Auchenorrhyncha 11450
Hemiptera 8514, 9438
Laodelphax striatella 3564
Japan 3564
Mediterranean countries 11450
natural enemies 11450
rice, fields, India 8514
UK 9438
- Drymonia ruficornis***, Spain 1178
- Dryobota tabecula***
biology 818
Quercus ilex, Spain 818
- Dryobotodes eremita***
biology 818
Quercus ilex, Spain 818
- Dryobotodes monochroma***
biology 818
Quercus ilex, Spain 818
- Dryocoetes autographus***
attractants 822
coniferous forests, Ontario 822
monitoring, traps 822
pathogens 6085
Picea mariana, Manitoba 6085
- Dryocoetes carpinivorus***
Carpinus laxiflora, Korea Republic
5046
taxonomy, new species 5046
- Dryocosmus kuriphilus***
biology, phenology 9936
Castanea, China 7937
Castanea crenata
galls 9672
Japan 7022
chestnuts, Japan 9936
control, biological control 7022, 9672,
9936
Japan 9672
parasitoids 7937
- Dryopteris***, habitats, *Platyseiella marikae*,
South Africa 11525
- Dunaliella tertiolecta***, insecticides, effects
11401
- Dunes**, habitats, *Lordotus pulcherrimus*,
California 10356-10357
- Dung**, control, biological control 11596
- Duranta plumieri*** (*see D. repens*)
- Duranta repens***, *Aphis punicae*, Iraq 6844
- Dursban** (*see* Chlorpyrifos)
- Dust**, effects, Acari 9791
- Dusts**, control, stored products pests 7094
- Dutch elm disease** (*see also* *Ceratocystis ulmi*)
- Dutox** (*see* Oxydemeton-methyl, with
trichlorfon)
- Dwellings**
Achaearanea tepidariorum, Japan 5410
Drosophila mauritiana, Mauritius 3438
Psammotermes hybostoma, Egypt 3068
- Dyfonate** (*see* Fonofos)
- Dykes**, *Odontotermes fontanellus*, China
1346
- Dylox** (*see* Trichlorfon)
- Dynastinae**
books 8169
field crops, India 320
- Dypterygia caliginosa***
fruit trees, Korea Republic 3747
monitoring, traps 3747
- Dysaphis**
apples, Switzerland 2742
control, insecticides 2742
- Dysaphis plantaginea***
apples
damage 5733
German Democratic Republic 542
Washington 3792
biology 3792
control 3792
- Dysaphis pyri***
distribution, Iraq 5736
fruits 5736
natural enemies 5736
- Dysaphis tulipae***
distribution, Jordan 5392
plant pathogens, transmission 10886
tulips, Washington 10886
- Dysaphis viennoti***
Seseli, Iran 10663
taxonomy, new species 10663
- Dyscinetus morator***
biology 10513
Eichhornia crassipes, Florida 10513
- Dysdera crocata***
metals, detoxification 10376
prey, Isopoda 10376
- Dysdercus***, cotton, Africa 5884
- Dysdercus albofasciatus***
biology 2908
development 3929
cotton 2908
food plants, Argentina 3929
insecticides, toxicity 6983
natural enemies 2908
Pavonia malvacea, Argentina 2908
South America 3929
- Dysdercus cingulatus***
antiviral agents, effects 5176
biology, behaviour 5373
growth regulators, effects 2170, 2267
India 11935
insecticides, toxicity 11963
pathogens 11935
pheromones 5373
physiology
development 3267, 4296
endocrine system 2267
reproduction 5176
plant extracts
chemosterilants 9869
toxicity 7578
- Dysdercus fasciatus***, insecticides, toxicity
9871
- Dysdercus intermedius***
cotton 6956
dihydropyrans, effects 6956
physiology, reproduction 2275
- Dysdercus koenigii***
biology
behaviour 6428, 11368
development 325
food plants 325
growth regulators, toxicity 7233
pheromones 11368

- Dysdercus koenigii** *cont.*
 physiology
 development 32
 endocrine system 2273
 enzymes 44-45, 49
 plant extracts, effects 7243
Dysdercus maurus, biology 9867
Dysdercus nigrofasciatus, insecticides, toxicity 9871
Dysdercus poecilus
 biology, behaviour 3381
 Philippines 3381
Dysdercus similis
 plant extracts
 effects 7229
 repellents 5578
Dysgonia algira
 biology 4989
 food plants 4989
 morphology, antennae 2160
 pathogens 4158
 Spain 4989
Dysmicoccus brevipes
 control, insecticides 5848
 groundnuts, India 6907
 natural enemies 3828
 pineapples, Hawaii 3828
 potatoes, India 5848
Dysmicoccus morrisoni, pecans, Georgia 6802
Dysmicoccus neobrevipes
 natural enemies 3828
 pineapples, Hawaii 3828
Dysoxylum gaudichaudianum, Diptera, Queensland 1875
Dystropicus, taxonomy 1841
Dystropicus madhyapradeshi
Bombax malabaricum, India 1841
 taxonomy, new species 1841
Earias
 aubergines, India 3504
 control, insecticides 3933, 3939, 4919, 9877, 10863, 11773
 cotton
 Cameroon 3939
 India 1743, 2911, 3933, 4919, 9877, 10863, 11773
 varietal susceptibility 7874
 parasitoids 1743
 predators 3504
Earias cupreoviridis
 biology, phenology 1744
 jute, Pakistan 1744
 natural enemies 1744
Earias fabia (see *E. vittella*)
Earias insulana
 biology, environmental factors 10864
 control 6970
 insecticides 747, 3937, 10857
 trapping 9879
 cotton
 Egypt 10857
 India 747, 3937, 6970, 8780
 Pakistan 9879, 10864
 insecticides
 pathogenicity 11942
 toxicity 10855
 pheromones 9879
Earias vittella
 biology
 environmental factors 10864
 life tables 1733
 reproduction 8221, 11502
 control 6970
 biological control 6972
 insecticides 747, 1725, 3937, 7853, 7876, 9755, 11691
 trapping 9879
 cotton 1729
 India 747, 1725, 1733, 3937, 6970, 6972, 7853, 7876, 8780, 9880
 Pakistan 9879, 10864
 ecology, life tables 1729
 insecticides
 effects 9065
 toxicity 5194
 natural enemies 1733
 okras
 India 9755, 11691
 varietal susceptibility 7766
 pheromones 9879
- Earias vittella** *cont.*
 plants, volatile compounds, effects 4185
Thevetia peruviana 11502
 effects 5282
Earthworms
 insecticides, residues 11191
 soil arthropods, interactions 8538
Earwigs (see *Dermaptera*)
East Africa
Antestiopsis 769
 insects, water relations 2330
 pest control, books 11258
Prostephanus truncatus 1907
 soil fauna 1365
 sweet potatoes, conferences 6238
East Asia, pest control, information 5148
East China Sea, Delphacidae 2394
Eastern Europe, pest control 10205
Eastern screech owls (see *Otus asio*)
Ecdysone, effects, *Lithobius forficatus* 9260
 α -Ecdysone, precursors, synthesis 7343
 β -Ecdysone (see *Ecdysterone*)
 β -ecdysone (see *Ecdysterone*)
Ecdysones (see *Moulting hormones*)
Ecdysteroids (see *Moulting hormones*)
Ecdysterone
 biochemistry 10308
 effects
 Bombyx mori 2274, 7542, 9252
 Caledia captiva 4303
 Drosophila, cell lines 11236
 Drosophila auraria 7389
 Drosophila melanogaster, cell lines 7326, 11335
 Galleria mellonella 116
 Lepidoptera 2200
 Lithobius forficatus 9260
 Locusta migratoria 11336
 Mamestra brassicae 9253
 Mamestra configurata 2173, 11350
 Manduca sexta 5334, 11237
 nuclear polyhedrosis viruses 7542
 Ostrinia nubilalis 11337
 Spodoptera litura 3329, 11325
 Tenebrio molitor 95
 Thermobia domestica 93
 sources
 Diploclisia glaucescens 9499
 Lychnis chalcedonica 8413
Echinochloa, *Leptocoris*, Malaysia 2661
Echinochloa colonum
Leptocoris oratorius 2642
 India 7651
Sogatodes pusanus 447
Echinochloa crus-galli
 Aphididae, German Democratic Republic 10579
Leptocoris oratorius, India 7651
Rhopalosiphum maidis, USA 9552
Rhopalosiphum padi 5680
Sogatodes pusanus 447
Echinochloa glabrescens
Nephotettix 7640
 Pyralidae, food preferences 11580
Echinochloa ragged stunt virus, vectors, *Sogatella longifurcifera* 1461
Echinocnemus squameus
 biology, development 9579
 rice, China 9579
Echinodermata, insecticides, effects 6198
Echinops echinatus, extracts, antifeedants, *Spilosoma obliqua* 7244
Echium plantagineum, insects, pollination 1380
Echium vulgare, insects, pollination 1380
Echthrodryinus (see *Ooencyrtus*)
Eciton burchelli
 biology
 behaviour 2422, 10428
 thermoregulation 9376
 birds, interactions 7486
 Brazil 1224
Callithrix humeralifer, interactions 1224
 forests 9376
 Mexico 7486
 Panama 10428
Eciton hamatum, biology, behaviour 2422
Eciton rapax, biology, behaviour 2422
Ecitoninae, biology 5428
- Ecology**
 agriculture, books 12030
 conferences 5241
Economic thresholds
 Acrididae, ranglands 4684
Acyrtosiphon pisum, peas 2823
Agrotis ipsilon, potatoes 1689
Anthonomus eugenii, *Capsicum* 9857
Anthonomus grandis, cotton 4918
 Aphididae, *Brassica* 2797
 arthropod pests, apples 549
Cacopsylla pyricola, pears 4761
Calocoris angustatus, sorghum 3722
Campylomma verbasci, apples 8590
 Cicadellidae, peaches 2750
Clavigralla tomentosicollis, *Vigna unguiculata* 3879
 Curculionidae, sugarbeet 674
Delia radicum, cabbages 607
Elasmopalpus lignosellus, sorghum 2667
Eurygaster integriceps, wheat 373, 380
Helicoverpa, tomatoes 10845
Helicoverpa armigera, cotton 751-752, 1732
Helicoverpa zea, tomatoes 9851
 insect pests
 cauliflowers 2806
 cereals 5582
 cotton 4934, 9873
 determination 919
 reviews 920
 USSR 918-919
 Lepidoptera
 cabbages 2805
 cotton 9877
Lipaphis erysimi, radishes 619
Lissorhoptrus oryzophilus, rice 9588, 11565
Lygocoris communis, apples 8588
Lygus lineolaris, apples 11646
Melanogrammyza sojae, soyabeans 11730
Oligonychus pratensis, maize 10593
Ophiomyia phaseoli, crops 2816
Panonychus ulmi, apples 2744
Prays oleae, olives 8651
Sipha flava, sorghum 10632
Sitodiplosis mosellana, wheat 9536
Sogatodes orizicola, rice 5637
Spodoptera frugiperda, Gramineae 7582
Suca jujuba, *Ziziphus sativa* 1569
Tetanops myopaeformis, sugarbeet 5839
Theresimima ampelophaga, grapes 519
Thrips flavus, apples 11644
Thyridopteryx ephemeraeformis, *Thuja occidentalis* 6999
Trialeurodes vaporariorum, tomatoes 725
Unaspis yanonensis, *Citrus* 9703
Viteus vitifoliae, grapes 516
Economics, crop production, models 5547
Ecosystems
 aggregation, models 8309
 pesticides, effects 1020
 stress, conferences 1020
Ecotininae, biology, behaviour 10428
Ectatomma quadridens, biology, behaviour 10403
Ectatomma ruidum
 biology, behaviour 10403
Thisbe irenea, interactions 2977
Ectatomma tuberculatum, biology, behaviour 10403, 10419, 10422
Ectrodiplosis fairchildii
 hosts, Delphacidae 10626
 rice, fields, India 10626
Ectoedemia
 Palaearctic Region 840
 taxonomy 840
Ectoedemia argyropeza
 morphology, males 840
Populus tremula, Irish Republic 840
Ectomerus systemus
 taxonomy, new species 11829
Terminalia sericea, South Africa 11829
Ectomyeloides ceratoniae
 biology, behaviour 10340

- Ectomyelois ceratoniae** *cont.*
 control, microbial pesticides 5756
 dates, Libya 1545
 fruit trees, USSR 3779
 morphology 3779
 natural enemies 1545
 parasitoids 5483
 pomegranates, Iraq 5483, 5756
 radiation, effects 11357
 taxonomy 3779
- Ectroma**, taxonomy, synonyms, *Idiococcophilus* 4540
- Ectroma coccophilus**, hosts, Coccoidea 4540
- Ectroma japonicum**
 Japan 4540
 taxonomy, from *Idiococcophilus* 4540
 USSR 4540
- Ectropis excursaria**, morphology, sense organs 2158
- Ectropis obliqua**
 diets 8798
 pathogens 8798
 rearing techniques 8798
 tea, China 8798
- Ecuador**
 Araneae 11455
Calosoma 11287
Cecropia, insects 2952
 Chrysomelidae 5815
Hispoleptis subfasciata, parasitoids 1540
 maize, Coleoptera 2625
 oil palms, pollinators 1541
- Edaphopausus favieri** (*see* *Paussus favieri*)
- Edessa mediatubunda**, soyabeans, Paraguay 3880
- Edessa rufomarginata**
 biology 321
 crops, Argentina 321
 food plants 321
 parasitoids 321
- Edifephos**, toxicity, *Scirpophaga incertulas* 3714
- Edocla slateri**
 biology, behaviour 8348
 prey, insects 8348
- Edovum puttleri**
 biology 5450, 8736
 oviposition 6925
 biotypes 5450
 control
Leptinotarsa decemlineata 731, 2106, 3901, 4886
 evaluation 4880
- hosts
Leptinotarsa decemlineata 1315, 5450, 6925, 8736
Leptinotarsa texana 3901
- Italy 731
- potatoes
 fields
 Canada 4886
 Maryland 3901, 4880
 Massachusetts 6925
 New York 8736
 pest resistance, effects 8736
 rearing techniques 3901
- Edwardsiana crataegi**, biology, development 4735
- Edwardsiana rosae**, fruit trees, damage 8549
- Efferia wilcoxi**
 Arizona 10440
 biology, behaviour 10440
 prey, insects 10440
- Egeria densa**, *Parapoynx diminutalis* 8430
- Eggplant mottled dwarf rhabdovirus**, vectors, Aphididae 6853
- Eggplants** (*see* Aubergines)
- Eggs**, insecticides, residues 11219
- Egypt**
Abacarus cynodonis 9525
Acaropsellina sollers 573
Aleuroglyphus 4048
Amblyseius aegyptocitri 4270
 Aphididae, parasitoids 650
Aphis 553
Aphis spiraecola 553, 574
Bryobia desertorum 2562
- Egypt** *cont.*
Cataglyphis savignyi 10407
Ceratitis capitata 4428, 9698
Ceroplastes floridensis 571
Chilo agamemnon 1470
Cicadulina chinai 10552
Citrus, arthropods 572
 cotton
 insecticides, effects 10856, 10858
 Lepidoptera 10857
Eriophyes acanthus 777
Etiella zinckenella 1662
 groundnuts, mites 662
Hypera brunneipennis, pathogens 482
Labidura riparia, ectoparasites 5455
 mites 194, 324
 Noctuidae 9326
 onions, insecticide residues 3911
Oribatula 10723
 ornamental plants, insect pests 776
Pectinophora gossypiella 1730
Pieris rapae, parasitoids 5790
Plutella xylostella, parasitoids 1625
 potatoes
 arthropod pests 1683, 2864
 insect pests, predators 7817
Protoparasellus minutus 1521
Psammotermes hybostoma 281, 3067-3069
Pterochloroides persicae 4768
Rhopalosiphum 406
 rivers, insecticide residues 980
 Scutacaridae 2577
 soil, invertebrates 10747
 soil arthropods 1731
 soil fauna 1165
 soyabeans, insecticide residues 2834
Spodoptera littoralis 2905, 3935
Tetranychus 2835
Tetranychus cucurbitacearum 654
Tetranychus urticae 4908
 Tydeidae 1029, 2788
Typhlodromus hellei 2563
Zeze nigricornis, hosts 5447
Ziziphus spina-christi, arthropods 5744
- Egyptian clover** (*see* *Trifolium alexandrinum*)
- Ehretia acuminata**, *Baileyna indica*, galls 10977
- Ehretia pitiolaris**, *Aleurolobus*, Kenya 9152
- Ehretia rigida**, *Calepitrimerus gwenliae*, South Africa 9667
- Eichhornia crassipes**
 biological control 3625-3626, 8431
 reviews 10519
- Dyscinetus morator*, Florida 10513
- extracts
 effects, *Callosobruchus chinensis* 8424
 growth regulators, *Corcyra cephalonica* 4072
 toxicity, stored products pests 10027
- India 3625
 natural enemies 10519
Neochetina bruchi 4580
Neochetina eichhorniae, damage 6640
Paraamblyseius crassipes 1040
- (3Z,6Z,9Z)-3,6,9-Eicosatriene
 attractants, *Mocis latipes* 2672
 mixtures, attractants, Noctuidae 11725
- (Z)-11-Eicosenyl acetate, pheromones, *Drosophila* 68
- Eiphomosa vitticollae**
 hosts, *Spodoptera frugiperda* 8476
 maize, fields, Brazil 8476
- Eisenia foetida**, pesticides, toxicity 11212
- Ekalux** (*see* Quinalphos)
- Ekamet** (*see* Etrinfos)
- El Salvador**, *Hypothenemus hampei* 763
- Elaeidobius kamerunicus**
 Africa 1541
 Indonesia 1541, 7712
 oil palms, pollination 1541, 7712
- Elaeidobius plagiatus**
 Africa 1541
 oil palms, pollination 1541
- Elaeidobius singularis**
 Africa 1541
 oil palms, pollination 1541
- Elaeidobius subvittatus**
 Africa 1541
 oil palms, pollination 1541
 South America 1541
- Elaeis guineensis** (*see* Oil palms)
- Elaphria deltoides**
 Gramineae, Brazil 5601
 natural enemies 5601
- Elaphrothrips**
 biology 1037
 taxonomy 1037
- Elaphrothrips tuberculatus**
 biology 1037
 behaviour 6415, 9303
 reproduction 2310
Quercus, Michigan 9303
- Elasmopalpus lignosellus**
 biology 4625
 control
 cultural control 10810
 insecticides 3880, 9816
- ecology
 mortality 4868
 population dynamics, models 4648
- groundnuts
 Alabama 10810
 Texas 4868
 USA 9816
 maize, Bolivia 4640
 parasitoids 4640
 pathogens 7151
 plant extracts, phagostimulants 9812
 sampling 2667
 sorghum, Georgia 2667
 soybeans
 Florida 3881
 Paraguay 3880
 USA 4640
 wheat, Brazil 4625
- Elasmucha putoni**
 biology, behaviour 540
 mulberries, Japan 540
- Elasmus**
 China 5782
 hosts
Conopomorpha cramerella 10737
Diaphania indica 5782
 orchards, Taiwan 10737
- Elasmus albipennis**
 hosts, *Cydia pomonella* 1555
 orchards, USSR 1555
- Elasmus anticles**
Cajanus cajan, fields, India 2836
 hosts, *Cydia critica* 2836
- Elasmus brevicornis**
 hosts, *Rivula* 8713
 soyabeans, fields, India 8713
- Elateridae**
 biology 7611
 cereals, USSR 1427
 checklists, Italy 2350
 conifers, Ontario 8862
 control 7611, 9138
 insecticides 1698, 6127, 7826, 11738
- distribution
 Bulgaria 4414
 USSR 2374
- ecology 2298
 water relations 2330
- field crops, Italy 8483
 forests, Poland 7048
 groundnuts, Alabama 10810
 Kenya 2330
 maize, Italy 7611
 monitoring, traps 8862
 potatoes, Irish Republic 9138
 rearing techniques 2392
 sampling 4612
 soil, Queensland 4612
 sugarbeet 11738
 sweet potatoes 7826
 Georgia 1698
- Elatobium abietinum**
 distribution, maps 6455
 forest trees 6455
- Elatophilus hebraicus**
 Israel 1182
 prey, *Matsucoccus josephi* 1182
- Elatophilus nigricornis**, distribution, Israel 1182

- Elcar** (see *Baculovirus heliothis*)
- Eldana saccharina**
control 1509
biological control 1422
distribution 1509
ecology 1509
population dynamics 365
fertilizers, effects 5590
genetics, polymorphism, models 5591
maize
Ivory Coast 10594
resistance 8500
morphology, larvae 10594
parasitoids 5591
pathogens 6745
physiology, senses 10164
secondary metabolites, effects 10164
sorghum
Africa 3717
Kenya 6745
West Africa 1509
sugarcane, South Africa 365, 1422, 5590
taxonomy 10594
- Elder** (see *Sambucus*)
- Elechidae**, biology 9409
- Electric current**, effects, *Mamestra brassicae* 2306
- Electric field**, effects, *Drosophila melanogaster* 4320
- Electrophaes corylata**
grasslands, UK 9619
monitoring, traps 9619
- Elegia inconspicua**, *Emex australis*, South Africa 3608
- Elenchidae**
Australia 9409
hosts, *Nilaparvata lugens* 4661
taxonomy 9409
- Elenchus japonicus**
hosts, *Laodelphax striatella* 3565
Japan 3565
- Elenchus varleyi**
Australia 9409
biology 9409
hosts, Delphacidae 9409
taxonomy, new species 9409
- Eleodes**
arid lands, Wyoming 8277
biology, behaviour 8277
- Eleodes constrictus**
ecology, environmental factors 2331
Wyoming 2331
- Eleodes extricata**
ecology, environmental factors 2331
Wyoming 2331
- Eleodes nigrina**
ecology, environmental factors 2331
Wyoming 2331
- Eleodes pimelioides**
ecology, environmental factors 2331
Wyoming 2331
- Elettaria cardamomum** (see *Cardamoms*)
- Eleusine coracana**, products, diets, *Helicoverpa armigera* 9360
- Eleusine indica**, Pyralidae, food preferences 11580
- Eligma narcissus**
Ailanthus triphysa, India 10982
predators 10982
- Eligmodonta ziczac**, Spain 1178
- Elipsocus annulatus**, *Pinus sylvestris*, Spain 8830
- Elisabethiella baijnathi**
Ficus burtt-davyi, pollination 11656
South Africa 11656
- Elkneria pudibunda**
biology 8832
Fagus sylvatica, Spain 8832
morphology 8832
- Elm** (see *Ulmus*)
- Elonidae**, physiology, excretory system 9216
- Eloria noyesi**, *Erythroxylum coca*, Peru 3638
- Elsan** (see *Phenthoate*)
- Elymus angustus** (see *Leymus angustus*)
- Elymus arenarius** (see *Leymus arenarius*)
- Elymus elongatus**, *Rhopalosiphum padi*, resistance 11529
- Elymus elongatus** × **wheat**, *Rhopalosiphum padi*, resistance 11529
- Elymus hispidus**, *Rhopalosiphum padi*, resistance 11529
- Elymus hispidus** × **wheat**, *Rhopalosiphum padi*, resistance 11529
- Elymus repens**
Hispa atra, Turkey 9493
Papaipema nebris 9549
Rhopalosiphum padi, resistance 11529
- Elymus repens** × **wheat**, *Rhopalosiphum padi*, resistance 11529
- Embelia ribes**, extracts, toxicity, stored products pests 6018
- Embelin**, toxicity, stored products pests 6018
- Embioptera**, Mississippi 5378
- EMD** (see *Ethyl (E)-3-methyl-2-dodecenoate*)
- Emex australis**
insects, South Africa 3608
Rhytirrhinus inaequalis, South Africa 4575
- Emmelia trabealis**
monitoring, traps 3139
USSR 3139
- Empenthrin** ((E)-1-ethynyl-2-methyl-2-pentenyl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate)
control, *Tinea pellionella* 1888
- Empididae**
Palaeartic Region, books 5232
taxonomy 5232
- Empis**
distribution, Netherlands 6256
taxonomy 6256
- Empoasca**
Cajanus cajan, Puerto Rico 3886
control, cultural control 7817
cotton, varietal susceptibility 7859
ecology, population dynamics 11710
food plants
Cuba 5548
Puerto Rico 9811
host plants, Argentina 6764
monitoring, traps 6764, 6890
natural enemies 3886, 11710
potatoes, Egypt 7817
soybeans, Argentina 6890
squashes, California 11710
- Empoasca abrupta**
ecology, population dynamics 11710
natural enemies 11710
Phaseolus lunatus, damage 11399
squashes, California 11710
- Empoasca bifurcata**
ecology, habitats 11604
lucerne, Illinois 11604
- Empoasca biguttula biguttula** (see also *Amrasca devastans*)
- Empoasca decedens** (see *Asymmetrasca decedens*)
- Empoasca decipiens**, potatoes, damage 692
- Empoasca erigeron**
ecology, habitats 11604
lucerne, Illinois 11604
- Empoasca fabae**
biology
behaviour 4697, 8541-8542, 9786, 10649
environmental factors 11684
phenology 8737
control 1639
cultural control 9787
insecticides 4699
ecology
habitats 11604
population dynamics 9787
food plants 8541-8542, 9786, 10649
Minnesota 11684
Gleditsia triacanthos, Ohio 10951
herbicides, effects 4699
insecticides, toxicity 4697
Lotus corniculatus, Wisconsin 1528
lucerne 2382, 4697
damage 10648
Illinois 4699, 11604
Iowa 5406, 7699
New York 6771
- Empoasca fabae** cont.
lucerne cont.
Pennsylvania 6772
resistance 7693, 10656
USA 3682
natural enemies 9787
pathogens 5137
Phaseolus vulgaris
Michigan 9787
Virginia 1639
physiology, immune response 5137
potatoes
Manitoba 8737
USA 694
sampling 6771, 10951
- Empoasca kerri**
biology 6903
phenology 3869
Cajanus cajan, India 6903
control, insecticides 2827, 3888, 9814
groundnuts, India 3888, 6908, 9814
Lablab purpureus, India 3869
predators 667
Vigna radiata, India 5811
Vigna unguiculata, India 2827
- Empoasca kraemeri**
biology 635-636
migration 638
phenology 9827
sex ratio 4850
control
insecticides 8697, 9784
integrated control 634
ecology, spatial distribution 637
monitoring, traps 638
natural enemies 9827
pathogens 3878
Phaseolus lunatus, tropics 2821
Phaseolus vulgaris 635
Brazil 8697, 9784-9785
Colombia 5806
Cuba 634, 4850
Venezuela 636-638
potatoes, Brazil 9827
- Empoasca lybica** (see *Jacobiasca lybica*)
- Empoasca mediana**
cotton, USSR 2903
sampling 2903
- Empoasca motti**
control, insecticides 6884
Vigna radiata, India 6884
- Empoasca recurvata**
ecology
habitats 11604
population dynamics 11710
lucerne, Illinois 11604
natural enemies 11710
squashes, California 11710
- Empoasca solana**
ecology, habitats 11604
lucerne, Illinois 11604
- Empoasca terminalis**
control, insecticides 6884
Vigna radiata, India 6884
- Empoasca vitis**, grapes, damage 8549
- Empusa** (see *Entomophthora*)
- Empyreuma mucro**
Nerium oleander, Guadeloupe 3959
pheromones 3959
- Enaphalodes rufulus**
predators 1780
Quercus, Ohio 1780
- Enarmonia formosana**
apples, USSR 551
attractants 2228
ecology, population dynamics 551
monitoring, traps 551
USSR 2228
- Enarmoniini**
taxonomy 3424
Vietnam 3424
- Encarsia**
avocados, orchards, Queensland 7743
biology 5456, 9404
Citrus
orchards
Cuba 9712
Israel 11663
Pakistan 2759
control
Siphoninus phillyreae 8914

- Encarsia cont.**
control cont.
 Trialeurodes vaporariorum 1277
Cuba 9452
distribution, Oriental Region 3498
German Federal Republic 7005
greenhouses, USSR 3494
growth regulators, effects 11663
hosts
 Aleurocanthus woglumi 2759
 Aleurocybotus indicus 442
 Aleyrodidae 7005
 Bemisia tabaci 6533
 Dialeurodes citri 11663
 Diaspididae 9712
 Lepidosaphes gloverii 9712
 Pseudaulacaspis pentagona 10736
 Trialeurodes vaporariorum 3494, 5456
 Unaspis citri 9452
India 6533
Italy 9404
morphology 9452
rearing techniques 1277, 3494
rice, fields, West Africa 442
taxonomy 3498, 9404
USSR 1277
- Encarsia albiscutellum longipalpa**
hosts, *Aleurolobus* 3498
taxonomy, new subspecies 3498
- Encarsia aleurolati**
Ethiopia 9147
hosts, *Aleurolatus cadabae* 9147
taxonomy, new species 9147
- Encarsia arabica**
hosts, Aleyrodidae 3499
Saudi Arabia 3499
taxonomy, new species 3499
- Encarsia berleseii**
biology, phenology 2751
control, *Pseudaulacaspis pentagona* 581
hosts, *Pseudaulacaspis pentagona* 2751
passion fruits, habitats, Western Samoa 581
peaches, orchards, Italy 2751
- Encarsia bifasciafacies**
hosts, Aleyrodidae 3498
taxonomy, new species 3498
- Encarsia brevivena**
hosts, *Bemisia tabaci* 3498
taxonomy, new species 3498
- Encarsia citrina**
avocados, orchards, Queensland 7743
Citrus, orchards, China 7749
control, *Hemiberlesia lataniae* 7743
hosts, *Parlatoria zizyphi* 7749
taxonomy, synonyms, *Aspidiotiphagus australiensis* 2460
- Encarsia confusa**
hosts, *Aleurolobus niloticus* 3498
taxonomy, new species 3498
- Encarsia dialeurodis**
hosts, *Dialeurodes* 3498
taxonomy, new species 3498
- Encarsia diaspidicola**
control, *Pseudaulacaspis pentagona* 581
passion fruits, habitats, Western Samoa 581
- Encarsia dichroa**, taxonomy, synonyms, *Encarsia pseudopartenopea* 9404
- Encarsia formosa**
biology 5456
control
 Aleyrodidae 2946, 3965, 7004, 10900, 10902, 11780
 greenhouse crops, arthropod pests 5862
 Trialeurodes vaporariorum 621, 1710, 2072, 2786, 3835, 3865, 3915, 3964, 7002, 8761, 11786
 models 3526-3527
ecology, population dynamics 4902
greenhouses 5862
 Austria 2786, 3915
 Denmark 2946
 German Democratic Republic 621, 3835, 3865
 German Federal Republic 3964-3965, 7004, 11780
- Encarsia formosa cont.**
greenhouses cont.
 Japan 4902
 Poland 7002
 UK 8761
hosts
 Aleyrodidae 4514
 Trialeurodes vaporariorum 725, 4507, 4902, 5456
Norway 10902
ornamental plants, habitats, German Federal Republic 11786
pesticides
 effects 3135
 toxicity 8125
rearing techniques 8369
USSR 5775
- Encarsia gerlingi**
hosts, *Aleurolobus* 9152
Kenya 9152
taxonomy, new species 9152
- Encarsia guadeloupae**
Guadeloupe 9147
hosts, *Aleyrodites* 9147
taxonomy, new species 9147
- Encarsia horatii**, taxonomy, from *Coccophagus* 2460
- Encarsia indica**, taxonomy, from *Prospaltella* 3498
- Encarsia insulana**
hosts, *Aspidiotus* 3499
Solomon Islands 3499
taxonomy, new species 3499
- Encarsia koebeleii**, taxonomy, from *Prospaltella* 2460
- Encarsia lahorensis**
Citrus
 orchards
 Israel 11663
 Italy 3816
growth regulators, effects 11663
hosts, *Dialeurodes citri* 3816, 11663
- Encarsia liliyngae**
China 9517
hosts, Coccoidea 9517
taxonomy, new species 9517
- Encarsia longicauda**
hosts, Aleyrodidae 3498
taxonomy, new species 3498
- Encarsia lounsburyi**
Aonidiella citrina, differentiation 9446
biology 9446
hosts, Diaspididae 9446
morphology 9446
- Encarsia muliyali**, taxonomy, synonyms, *Encarsia ochai* 3498
- Encarsia ochai**, taxonomy, synonyms, of *Encarsia muliyali* 3498
- Encarsia partenopea**
control, *Trialeurodes vaporariorum* 11687
USSR 11687
- Encarsia pergandiella**
biology 3524
hosts, *Trialeurodes vaporariorum* 3524
- Encarsia perniciosi**
apples, orchards, India 4737
control, *Quadraspidiotus perniciosus* 4737, 7709
fungicides, toxicity 8387
hosts, *Quadraspidiotus perniciosus* 8387, 11433
India 11433
monitoring, traps 4737
orchards, German Federal Republic 7709
- Encarsia plana**
China 9517
hosts, *Bambusaspis* 9517
taxonomy, new species 9517
- Encarsia primitiva**
hosts, Aleyrodidae 9147
Pakistan 9147
taxonomy, new species 9147
- Encarsia pseudopartenopea**, taxonomy, synonyms, of *Encarsia dichroa* 9404
- Encarsia sankarani**
hosts, *Fiorinia theae* 3498
taxonomy, new species 3498
- Encarsia septentrionalis**
hosts, Aleyrodidae 3498
- Encarsia septentrionalis cont.**
taxonomy, new species 3498
- Encarsia shafeei**, taxonomy, synonyms, of *Encarsia transvena* 3498
- Encarsia transvena**
taxonomy
 synonyms
 Encarsia shafeei 3498
 Prospaltella flava 3498
- Encarsia tremblayi**
hosts, *Aleurocanthus* 9147
Somalia 9147
taxonomy, new species 9147
- Encarsia trivittata**
hosts, *Aleurolobus* 3498
taxonomy, new species 3498
- Encarsia udaipuriensis**
taxonomy
 synonyms
 Prospaltella agarwali 3498
 Prospaltella citri 3498
- Encarsiella magniclavus**, taxonomy, to *Dirphys* 2460
- Encephalartos**, Curculionidae, pollination 3030
- Enchenopa binotata complex**
food plants, USA 5955, 5957
genetics, variation 5955, 5957
- Encyrtidae**
biology 2124
control
 insect pests 2124
 Pseudococcidae 906
hosts 2124
 Planchonia arabidis 782
India 2459
morphology 6255
New Zealand 2124
taxonomy 2124, 2459, 6255
- Endophytes**, effects, *Spodoptera frugiperda* 7672
- Endopisia viteana** (see *Polychrosis viteana*)
- Endoreticulatus fidelis**, hosts, *Leptinotarsa decemlineata* 10055
- Endosulfan** (6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepin 3-oxide)
analysis 6479
control
 Amrasca biguttula 8669, 9756
 Amrasca devastans 3840, 11774
 Amsacta albistriga 2846
 Anarsia ephippias 3867
 Anthonomus grandis 6958-6959
 Anthonomus rubi 8557
 Apion fulvipes 8545
 aubergines, insect pests 7840, 11757-11758
 Banksia spinulosa, insect pests 9504
 Bemisia tabaci 7879
 Cajanus cajan, insect pests 3887, 4865, 5825
 Carpomyia vesuviana 8637
 carrots, Hemiptera 4878
 Cavelerius sweeti 4606, 4610
 Chilo partellus 3721, 7663, 8519
 cotton
 arthropod pests 8770
 insect pests 3934, 4919
 Diatraea 8515
 Frankliniella occidentalis 7901
 Gonioctena fornicata 5691
 Helicoverpa armigera 348, 739, 5832, 5834, 7669, 7810, 7813, 8727, 9865
 Hypothenemus hampei 762
 Lipaphis erysimi 2807
 Lygus pratensis 3839
 Melanagromyza obtusa 11719
 Myochrous armatus 4861
 Mythimna venalba 11566
 Nasonovia ribisnigri 597
 Noctuidae 2662, 3671, 3942
 Oides scutellata 8574
 okra, insect pests 11691
 Omiodes indicata 3882
 Ophiomyia phaseoli 2816
 Orseolia oryzae 10610
 Phthorimaea operculella 8744
 Phytonemus pallidus 504

Endosulfan cont.

control cont.

- Polyphagotarsonemus latus* 689
Psylliodes plana 3900
 Pyralidae 2838
Raoiella indica 7711
Rhynchaenus mangiferae 584
 rice, insect pests 3696
 soybeans, insect pests 6898
Spilosoma obliqua 2729
Spodoptera litura 8788-8789
 sugarcane, insect pests 4611
Syllepte derogata 755, 6962
 Termitidae 8725
 Thysanoptera 3784
 tomatoes, insect pests 3917
Trialeurodes vaporariorum 1710
Tyrophagus similis 9746
Udea ferrugalis 7803
Uroleucon carthami 2898
Vigna unguiculata, insect pests 2827

degradation

- Phaseolus vulgaris* 629
 sea water 3198

effects

- Agrotis segetum* 11179
 algae 11187
Amblyseius victoriensis 8632
 angiosperms 4200
Apis mellifera 1260, 7494
Cajanus cajan 1668
 Crustacea 3177
 Echinodermata 6198
 fishes 11192
Gladiolus psitticinus, pollination 7221
 insects 110
Lamelidens 5209
 parasitoids 2846
 plant pathogens 8783
 rats 11991-11992, 11996-11997
 formulations, stickers 8512

mixtures

control

- Cacopsylla pyri* 8621
Cajanus cajan, insect pests 6900
Diatraea 8515

toxicity

- Cyrtobagous salviniae* 7561
Helicoverpa armigera 2854

nontarget effects

- Apis florea* 1571
 aquatic organisms 2039
Cheilomenes sexmaculata 6889
Cyrtobagous salviniae 10507
Pheretima posthuma 7203
Platyaster oryzae 10610
 predatory mites 9746
Trioxys pallidus 11634

persistence, environmental factors,

- effects 11982
 pollutants, marine areas 4213
 rain, effects 8087

residues

- aubergines 6948, 7841, 7844
Coriandrum sativum 10527
 cotton 3942
 crops 606
 fishes 6137, 12002
 foods 10224
 honey 962
 Indian mustard 617
 kohlrabi 2800
 lucerne 11612
 okras 9757, 11692
 potatoes 7822
 rice 3696, 8512
 snow 8140
 sorghum 3718, 8519, 11584, 11586
 tobacco 4943-4944
Vigna radiata 11227

resistance

- Cacopsylla pyricola* 1565
Hypothenemus hampei 4955, 10877
 solar radiation, effects 11972

toxicity

- Acari 2880
Achaea janata 1721
Allorhogas pyralophagus 9528
Anomis sabulifera 7190

Endosulfan cont.

toxicity cont.

- Aphelinus mali* 8372
Apis mellifera 6200
Chelonus blackburni 1280, 8390
 Cucurbitaceae 8688
Earias vittella 5194
 fishes 6174
Helicoverpa armigera 2854
Heliopsis virescens 11976
Hypothenemus hampei 764
Lipaphis erysimi 6872
 Meloidae 3842
Mylabris phalerata 10808
Pieris brassicae 9051
 rats 963
Spilosoma obliqua 7783, 10114
Spodoptera frugiperda 404
Spodoptera litura 9590
Tribolium castaneum 11972, 11982
Trichogramma 5453
Trichogramma brasiliense 11451

Endosulfan sulfate, nontarget effects, rats 2050 β -Endosulfan, nontarget effects, rats 2050 δ -Endosulfan, nontarget effects, rats 2050

- Endrin** ((1 α ,2 β ,2 α ,3 α ,6 α ,6 β ,7 α)-3,4,5,6,9-hexachloro-1 α ,2,2 α ,3,6,6 α ,7 α -octahydro-2,7:3,6-dimethanonaphth[2,3-*b*]oxirene)
 control, cotton, insect pests 742

effects

- Echinodermata 6198
Fasciola gigantica 2035
 legumes 1634

nontarget effects

- man 9071
 wildlife 5204
 pollutants, marine areas 4213

residues

- birds 10125
Hyalella azteca 965
 soil 11233
 water 980

Endymion non-scriptus (see *Hyacinthoides non-scripta*)**Engelmann spruce** (see *Picea engelmannii*)**Enneothrips flavens**

- control, insecticides 4867
 groundnuts, Brazil 4867

Enoclerus lecontei

- Pinus*, forests, USA 8870
 prey, *Ips* 8870

Enoggera

- hosts, *Trachymela tincticollis* 3021
 Western Australia 3021

Enolofos (see Chlorfenvinphos)**Enoplognatha ovata**

- biology, reproduction 3575
 ectoparasites 8359
 Maine 3575, 8359
 meadows, Switzerland 1516

Enprepnemis shirakii, rice, China 3685**Ensinna sonchi**

- parasitoids 2692
 weeds, India 2692

Entedon

hosts

- Apion* 4041
 insects 3557
 Japan 2454
 North America 3557
 taxonomy 2454, 3557

Entedon nomizonis

- hosts, *Rhynchaenus* 2454
 Japan 2454
 taxonomy, new species 2454

Enterobacter, *Nilaparvata lugens*, symbiosis 3104**Enterobacter cloacae**, hosts, insects 10067

- Enterococcus faecium**, Pyralidae, interactions 8319

Enterovirus, hosts, *Bactrocera tryoni* 4706

- Entheus priassus**, *Gustavia superba*, Panama 10998

Entodon, *Salix*, forests, Europe 4041**Entomobrya multifasciata**

- ecology 4987
 forests, Spain 4987

Entomogenous fungi

- Alternaria alternata* 11946

Entomogenous fungi cont.

- Aschersonia aleyrodis* 5862
Aschersonia duplex 7951
Aschersonia placenta 3103
Ascosphaera aggregata 480
Aspergillus 3113, 11946
Aspergillus flavus 6607, 11935, 11938
Aspergillus parasiticus 11938
Bacillus 3095
Basidiobolus 2516, 3114, 3116
Beauveria 3113, 5826, 7023
Beauveria bassiana 289, 761, 878-879, 1409, 1519, 1960, 1966, 2873, 2913, 3086, 3096, 3901, 3984, 4032, 4096, 4123, 4138, 4239, 4795, 4799, 4858, 4889, 4949-4950, 5106, 5110, 5115, 5663, 5696, 5997, 6032, 6111, 6512, 6684, 6928, 7151, 7160, 7480, 7916, 8322, 8514, 8610, 8713, 8723, 8755, 8971, 8984, 8987, 8997, 9523, 9558, 9730, 9954, 10056-10057, 10062, 10069, 10835, 11004, 11076, 11083, 11085, 11100, 11498, 11551, 11905, 11914, 11925, 11944, 11950
Beauveria brongniartii 1960, 4239, 6684, 9704, 10062
Beauveria tenella 1587
Botryandromyces heteroceri 5567
Cephalosporium lecanii 9478, 10083
Conidiobolus 8998
Conidiobolus coronatus 3096
Conidiobolus obscurus 894, 8972
Conidiobolus thromboides 5136
Cordyceps 5118
Cordyceps sinensis 3336
Dimeromyces 6037
Entomophaga 1479, 8998
Entomophaga aulicae 895, 1535, 4111, 5134, 6089
Entomophaga grylli 1220, 5128, 5136, 6089, 11912-11913, 11917, 11948
Entomophaga maimaiga 1946, 6089, 7150, 10080, 11008, 11076, 11917, 11929
Entomophthora 820, 2908, 7023
Entomophthora fumosa 8514
Entomophthora grammiae 9807
Entomophthora muscae 895, 11922
Entomophthora thaxteriana 2516, 3114-3117, 3125, 11967
Entomophthora virulenta 3114, 3116
Entomophthorales 1951, 5771, 6066, 7130, 8985, 12027
Erynia 8998
Erynia crustosa 5971
Erynia delphacis 1479
Erynia neaphidis 2818, 8679, 8732, 9631
Erynia phytonomi 9636, 11606, 11608
Erynia radicans 1479, 2818, 5137, 7073, 11917, 11921
Erynia rhodope 8435
Eryniopsis lampyridarum 4091
Fusarium 820, 4954, 8989
Fusarium larvarum 7131
Glomerella cingulata 4954
Hirsutella 7023
Hirsutella citrififormis 820
Hirsutella guayana 5137
Hirsutella longicolla 7144
Hirsutella longicolla var. *cornuta* 7144
Hirsutella nodulosa 498, 7144
Hirsutella thompsonii 3759
Metarhizium 7126
Metarhizium anisopliae 1519, 1870, 1954, 1958, 1961, 3110-3111, 3645, 3886, 4096, 4141, 4239, 4373, 4446, 4690, 4795, 4949, 5137, 6072-6073, 6083, 6113, 6688, 6694, 6760, 7138, 7246, 7480, 8008, 8016, 8032, 8982, 8986-8987, 9001, 9730, 10051, 10057, 10060, 10066, 10876, 11082, 11100, 11925, 11945
Metarhizium anisopliae var. *anisopliae* 5105, 5696, 9591, 10848, 11904
Metarhizium cylindrospora 9948
Microhilum oncoperae 6067

Entomogenous fungi cont.

- Mucor* 3113
- Nectria flammea* 5904
- Neozygites* 6092, 8998
- Neozygites fresenii* 4584, 7143
- Neozygites fumosa* 2100
- Neozygites parvispora* 6878
- Nomuraea anemonioides* 4130
- Nomuraea atypicola* 4130
- Nomuraea rileyi* 894, 1945, 1961, 4130-4131, 4634, 6095, 8476, 8986, 9807, 11086
- Paecilomyces* 5118, 8971
- Paecilomyces farinosus* 820, 8610, 8993, 11083
- Paecilomyces fumosoroseus* 3098-3099, 9478, 10057
- Rhizopus arrhizus* 11946
- Sporospora uvela* 1519
- Stigmatomyces scaptomyzae* 6257
- Torrubiella formicarum* 11903
- Torrubiella pseudogibulella* 11903
- Torrubiella sphaerospora* 11903
- Verticillium* 3113, 8610
- Verticillium lecanii* 775, 1221, 1948, 1966, 3100, 3672, 3683, 4096, 4967, 5138, 5862, 8796, 8850, 9523, 9898
- application 9022
- control
 - Coleoptera 5164
 - greenhouse crops, arthropod pests 2781
 - Lymantria obfusca*, evaluation 5245
- genetics, genetic engineering 885
- hosts
 - Aleyrodidae 4782
 - Cerapteryx graminis* 1520
 - Curculionidae 4239
 - Hoplocampa testudinea* 4759
 - insect pests 11665
 - insects 5123
 - Ips acuminatus* 4037
 - Lepidoptera 2804, 6745
 - Liriomyza trifolii* 8759
 - Macrosiphum albifrons* 3636, 10869
 - Noctuidae 5601
 - Panolis flammea* 8156
 - Rothschildia orizaba* 3948
 - Sitobion avenae* 2604
 - soil, insects 5164
- persistence, environment 4239
- pest control 1966, 6107, 9022
- conferences 10216
- reviews 3105, 6831
- soil
 - Finland 6099
 - recovery 5136

Entomological Society of America, history 8194**Entomology**

- biosystematics, Oriental Region 5409
- Bolivia 4434
- cocoa, Ghana 11273
- crops, tropics 5246
- dictionaries 3218
- German Federal Republic, conferences 3221
- history
 - Indiana 8193
 - USA 7304
- horticultural crops, Poland 11275
- India, reports 8186-8187
- information, books 10191
- information retrieval 8192
- Irish Republic 9138
- Kenya, reports 5242-5243
- Korea Republic, conferences 10214
- museums
 - Italy 6249
 - USA 6249
- Netherlands, reports 3145
- Norway, conferences 4243
- rangelands, books 11255
- remote sensing, reviews 2398
- research, artificial light 7463
- Singapore, reports 5248
- South Africa, reports 1422
- statistical methods 11402

Entomology cont.

- stored products, reviews 7081
 - Sudan, reports 7298
 - UK, reports 5034, 6245
- Entomopathogenic bacteria 8029**
- Bacillus thuringiensis* subsp. *kurstaki* 3112
 - Bacillus* 5130, 5601, 10772
 - Bacillus alvei* 11949
 - Bacillus amyloliquefaciens* 7153
 - Bacillus cereus* 897, 11949
 - Bacillus circulans* 5130
 - Bacillus megaterium* 11949
 - Bacillus popillae* 886
 - Bacillus sphaericus* 9087, 11076
 - Bacillus subtilis* 5647, 6077, 6096, 7153, 9002, 11063
 - Bacillus thuringiensis* 322, 512, 534, 589, 703, 796, 842, 882, 896-897, 899, 1019, 1280, 1712-1713, 1803, 1926-1927, 1929, 1947, 1966, 2635, 3006, 3085, 3106, 3124, 3131, 3138, 3401, 4089, 4097, 4107, 4120, 5050, 5114, 5126, 5130, 5161, 5212, 5581, 5649, 5711, 5756, 6027, 6057, 6065, 6105, 6178, 6180-6181, 6967, 7127, 7129, 7135, 7141, 7158, 7669, 7858, 7947, 8009, 8020, 8031, 8038, 8684, 8723, 8975-8976, 8995-8996, 9002, 9021, 9023, 9964, 9966, 10052, 10058, 10086, 10196, 11022, 11077, 11099, 11112, 11114, 11695-11696, 11741, 11907, 11919, 11942, 11949
 - Bacillus thuringiensis* subsp. *aizawai* 1930, 1947, 5126, 7123, 7125, 7154, 8011-8012, 8014, 8018, 11099, 11915
 - Bacillus thuringiensis* subsp. *alesti* 1972, 6094, 10063
 - Bacillus thuringiensis* subsp. *berliner* 7122
 - Bacillus thuringiensis* subsp. *darmstadtensis* 8017
 - Bacillus thuringiensis* subsp. *den-drolimus* 545, 608, 741, 1802-1803, 2538, 2804, 3112, 3131, 9021
 - Bacillus thuringiensis* subsp. *entomocidus* 1928, 1947, 5126
 - Bacillus thuringiensis* subsp. *finitimus* 8019
 - Bacillus thuringiensis* subsp. *fukuokaensis* 6094, 11923
 - Bacillus thuringiensis* subsp. *galleriae* 1972, 2538, 5116, 8019, 10084
 - Bacillus thuringiensis* subsp. *israelensis* 1920, 3091, 3093, 4104, 5135, 7155, 8013, 9087
 - Bacillus thuringiensis* subsp. *kenyae* 1947, 7876, 9821, 10076, 10078, 11775
 - Bacillus thuringiensis* subsp. *kurstaki* 217, 291, 426, 608, 741, 902, 1937-1938, 1947, 2203, 2854, 3000, 3037, 3092, 3102, 3118, 3852, 4100, 4105, 4133, 4825, 4869, 5163, 5649, 5794, 6064, 6081, 6094, 6320, 7128, 7141, 7155, 8010, 8013-8014, 8019, 8030, 8565, 8852, 8869, 8936, 9006, 9021, 9054, 9560, 9660, 9766, 9821, 10065, 10068, 10076, 10078, 10701, 10907, 11081, 11094, 11824, 11915, 11928, 11936, 11942, 11947
 - Bacillus thuringiensis* subsp. *morrisoni* 5135
 - Bacillus thuringiensis* subsp. *oyamensis* 1950
 - Bacillus thuringiensis* subsp. *san diego* 4884-4885, 7011
 - Bacillus thuringiensis* subsp. *sumiyoshiensis* 6094
 - Bacillus thuringiensis* subsp. *tenebrionis* 3902, 6064, 11076
 - Bacillus thuringiensis* subsp. *thuringiensis* 274, 501, 547, 696, 741, 903, 1803, 1972, 2894, 3119,

Entomopathogenic bacteria cont.

- Bacillus thuringiensis* subsp. *thuringiensis* cont. 3901, 4089, 4103, 4120, 5067, 5162, 8014, 8565, 8764, 9006, 9560, 10086, 10611, 11909
 - Bacillus thuringiensis* subsp. *wenguanensis* 5117
 - Baculoviridae 8007, 8033
 - Enterobacter cloacae* 10067
 - Escherichia coli* 5474
 - Proteus mirabilis* 3107
 - Pseudomonas* 10067
 - Pseudomonas aeruginosa* 3107, 5474
 - Rickettsiaceae 4144, 6068
 - Serratia* 9938
 - Serratia liquefaciens* 1963
 - Serratia marcescens* 4543, 6058, 6731
 - sex-ratio *Spiroplasma* 7317
 - Streptococcus faecalis* 11064
 - Wolbachia postica* 6765
 - Xenorhabdus luminescens* 1935
 - Xenorhabdus nematophilus* 5132
 - application 9022
 - control, *Lymantria dispar* 8823
 - hosts
 - Antheraea mylitta* 10958
 - Lepidoptera 2804, 6745
 - Noctuidae 5601
 - Panolis flammea* 8156
 - Rothschildia orizaba* 3948
 - persistence, environment 4239
 - pest control 1966, 9022, 11110
 - conferences 10216
- Entomopathogenic protozoa**
- Acanthogregarina hoshidei* 5124
 - Adelina* 482
 - Anisobolus indicus* 11046
 - Cystosporogones operophterae* 6061
 - Dinenympha mukundai* 4545
 - Dinenympha rayi* 4545
 - Endoreticulatus fidelis* 10055
 - Farinocystis tribolii* 883, 4059
 - Gregarina* 259
 - Gregarina hylobii* 1931
 - Gregarina nymphaeae* 8021
 - gregarines 3645
 - Hirmocystis lophocateri* 7969
 - Hirmocystis minuta* 11046
 - Hirmocystis oxata* 7969
 - Hirmocystis triboli* 7969
 - Laterospora phenacocca* 8022
 - Leidyana oryzaephili* 11046
 - Leptomonas lygaei* 10053
 - Microspora 6504, 8822, 11065
 - Microsporidium sitophili* 7967
 - Nosema* 890, 1834, 1939, 4009, 4112, 4142, 5052, 5104, 5981, 7097, 8023, 11087
 - Nosema acridophagus* 1519
 - Nosema algerae* 1956, 1959, 5139
 - Nosema bombycis* 4562, 7145, 9474, 10488
 - Nosema costelytrae* 11602
 - Nosema cuneatum* 1519
 - Nosema fumiferanae* 5025, 8042, 10068
 - Nosema furnacalis* 4108, 8037
 - Nosema galerucellae* 5926
 - Nosema infuscatellus* 4562
 - Nosema kingi* 6086
 - Nosema locustae* 1519, 3479, 8660, 11927
 - Nosema lymantriae* 4032
 - Nosema medialis* 8037, 10073
 - Nosema mesnili* 8039, 8990
 - Nosema pyrausta* 890, 1314, 3547, 4654, 5127, 5614, 11939
 - Perezia dichroplusae* 7137
 - Pleistophora oncoperae* 11602
 - Pyxinia* 849
 - Vairimorpha* 1612, 1640
 - Vairimorpha necatrix* 7146, 8977, 11919
 - Vavraia* 1834, 4009
 - application 9022
 - hosts
 - Cerapteryx graminis* 1520
 - insects 7126
 - Lepidoptera 6745
 - pest control 1966, 9022

Entomopathogenic protozoa cont.

pest control cont.
conferences 10216

Entomopathogens

control, *Lymantria obfuscata*, evaluation 5245
culture techniques 6229
data banks, catalogues 4237
genetics, genetic engineering 884
models, reviews 8034
water, isolation 7126

Entomophaga, hosts, Delphacidae 1463, 1479**Entomophaga aulicae** 5134

culture techniques 895, 4111
hosts

Lambdina fiscellaria 4111

Lepidoptera 1535, 5134

Lymantria dispar 6089

Entomophaga grylli

hosts

Acrididae 1220, 5128

Lymantria dispar 6089

Melanoplus differentialis 11912-11913, 11948

soil, recovery 5136

solar radiation, effects 5128

viability, determination 11917

Entomophaga maimaiga

culture techniques 1946, 11929

hosts

Apis mellifera 11076

Lymantria dispar 6089, 7150, 10080, 11008, 11929

Lymantriidae 1946

new species 1946

viability, determination 11917

Entomophilic nematodes

Agamermis 1542

Agamermis unka 7618

Allantonematidae 7055, 8848

Allonematidae 4149

Aphelenchidae 7055

Aphelenchoides ptyokteini 5962

Binema 6062

Bursaphelenchus mucronatus 1819

Bursaphelenchus xylophilus 1817, 7027, 8028, 9945

Chitwoodiella 6062

Coccinellimermis 7140

Contortylenchus acuminati 4037

Contortylenchus grandicollis 11074

Fergusobia jambophila 5759

Filipjevimermis leipsandra 11071

Gryllonema 6062

Heterorhabditis 1764, 1923, 1933-

1934, 1941, 4127, 4145, 6087, 6672, 8738, 8980, 9626, 10070

Heterorhabditis bacteriophora 8981, 9007

Heterorhabditis heliothidis 1515, 1853,

1935, 3669, 3964, 4098, 6672, 6776, 7765, 8024, 8979, 9518,

9822, 11480, 11786, 11908, 11911, 11914, 11924

Hexameris 4634, 7862

Hexameris parastepposis 7686

Indiana 6062

Leidynema portentosae 8978

Limnomermis 3626

Mermis 3101

Mermithidae 4149, 11590

Mesodiplogaster 7023

Neoapectana 1519, 1934, 4127, 6761,

8980, 9518, 10079, 11911

Neoapectana bibionis 1764, 1853, 3669, 4149, 11066, 11068, 11480, 11924

Neoapectana carpocapsae 1515, 1764, 1853, 1921-1922, 1936, 1942,

3669, 3964, 4100, 4129, 4155, 4158, 4609, 5107, 5121, 6063,

6672, 6776, 7147, 7765, 8024, 8026-8027, 8738, 8979, 8983,

9626, 11066, 11068, 11070, 11072-11073, 11088, 11480,

11908, 11930, 11943

Neoapectana feltiae 5132, 10070,

11066, 11914, 11940

Neoapectana glaseri 1515, 4609, 6063, 6760, 11068, 11943

Entomophilic nematodes cont.

Noctuidonema guyanense 11075

Ovomermis sinensis 3655

Parasitaphelenchus oldhami 1852

Parasitorhabditis autographi 6085

Parasitorhabditis obtusa 6085

Parasitylenchus orthotomici 11797

Quadrilotriena hyposkysta 10054

Rabbium paradoxus 8323

Rhabditidae 6016, 7055

Steinernema 1933, 9518, 10070

Steinernema kraussei 4098, 6080

Steinernema kushidai 1943, 11069

Sulphuretylenchus posteruteri 8844

Sulphuretylenchus pseudoundulatus 8844

application 9022

control

insect pests 4155

Lymantria obfuscata, evaluation 5245

Phaseolus vulgaris, insect pests 634

hosts

Cosmopolites sordidus 7758

Curculionidae 4239

Hoplocampa testudinea 4759

Ips typographus 4250

Lepidoptera 6745

Scolytidae 7055

India 1940

persistence, environment 4239

pest control 1966, 9022, 10205, 11110

China 11111

conferences 10216

soil, Finland 6099

Entomophthora

hosts

Dysdercus albofasciatus 2908

Hepialus gracilis 7023

Heteropsylla cubana 820

Entomophthora fumosa, hosts, Hemiptera

8514

Entomophthora grammæ, hosts, Noctuidae

9807

Entomophthora muscae

culture techniques 895

hosts, *Delia platura* 11922

isolation 11922

Entomophthora planchoniana

hosts

Aphididae 5122

Sitobion avenae 2604

Entomophthora thaxteriana

control, Aphididae 3125

effects, laboratory animals 11967

hosts, Aphididae 3114, 3116

morphology 3115

nontarget effects

Cycloneda limbifer 2516

small mammals 3117

Entomophthora virulenta, hosts, Aphididae

3114, 3116

Entomophthoraceae, pest control 3105**Entomophthorales**

biology, reviews 7130

culture techniques 12027

hosts

Aphididae 5771

Diabrotica barberi 1951

insects 7130

identification, immunology 6066

USSR, books 12027

Entomophthorin (see *Entomophthora thaxteriana*)**Entomopoxviridae**

detection 3466

hosts, Acrididae 3466

Entomopoxvirinae

hosts

Acrididae 11078

Cataloipus fuscocoeeruleipes 7136

morphology 7136

Entomopoxvirus

hosts

Acrididae 1216

Locusta migratoria 1217

ultrastructure 1217

Entomoscelis adonidis

ecology, phenology 5359

USSR 5359

Entomoscelis americana

Cruciferae 9744

distribution, North America 9744

Entomoscelis orientalis

biology 11507

Polygonum aviculare, China 11507

Environment

insecticides

degradation 9353

effects 4247-4248, 7302-7303, 9137, 10096, 10137

residues 3200

microbial pesticides, persistence 4239

pesticides, effects 11215

Enyus

biology 10966

Eucalyptus marginata, forests, Western Australia 10966

hosts, *Perthida glyphopa* 10966

morphology 10966

Enzyme inhibitors, mode of action 6142**Eocanthecona furcellata**, rearing techniques 2388**Eoessigia**, taxonomy, synonyms, *Raychaudhuriella* 3746**Eoessigia indica**

taxonomy

synonyms

Raychaudhuriella myzaphoides

3746

Raychaudhuriella potentillae

3746

Eonaphis

Madagascar 4253

taxonomy 4253

Eoreuma loftini

biology

behaviour 10587

phenology 2632

Gramineae, North America 5584

maize, Mexico 2632, 10587

parasitoids 5584

Eotetranychus carpini

biology 9664

control, biological control 4723

grapes 9664

Europe 6228

Italy 4723, 5711

pesticides, effects 5711

predators 4723, 9664

Eotetranychus pruni

apples, China 7735

control, biological control 7735

grapes, USSR 2512

predators 2512, 3554

Eotetranychus sexmaculatus, predators

9436

Eotetranychus uncatus

apples, Ontario 8586

ecology, population dynamics 8586

predators 8586

Eotetranychus willamettei

grapes

California 8571

damage 11626

Epargyreus clarus, pathogens 5130**Ephedrus**

hosts, Aphididae 2137

Israel 1760

morphology 2137

taxonomy 1760, 2137

Ephedrus cerasicola

attractants 5863

biology, behaviour 5863

hosts, *Myzus persicae* 5863

Ephedrus lacertosus

bamboos, habitats, India 3648

hosts, *Takecallis himalayensis* 3648

Ephedrus plagiator

detection 10561

hosts, *Sitobion avenae* 10561, 11440

identification, electrophoresis 11440

wheat, fields, UK 10561

Ephemeroptera

Australia, catalogues 12031

ecology 12031

Hungary 2369

insecticides

effects 11190

residues 8133

taxonomy 12031

- Ephestia nymphaea***
distribution, Czechoslovakia 5963
Quercus 5963
- Ephestia***
biology 1897
dates, Libya 1545
natural enemies 1545
predators 1236
- Ephestia calidella***
dates, Iraq 2702
pheromones 2702
radiation, effects 2702
- Ephestia cautella***
biology, behaviour 8946, 10340
cocoa, commodities 7988
control
biological control 11020, 11053
genetic control 11051
mating disruption 7988
dates
commodities 11051
Libya 1545
fumigants
effects 7980
toxicity 6169
fungicides, toxicity 6018
groundnuts
commodities 6046, 11053
USA 11895
insecticides
pathogenicity 11022
resistance 11895
toxicity 6046
natural enemies 1545
parasitoids 6040, 7770, 7773
pathogens 4102
pheromones 7988, 8946-8947
physiology
chemical composition 1124
endocrine system 11334
enzymes 7980, 9129
reproduction 6351
plant extracts, toxicity 6018
radiation, effects 866, 7770
stored products 11020
wheat, commodities 6018
- Ephestia ceratonia***
dates, Libya 1545
natural enemies 1545
- Ephestia elutella***
biology, behaviour 10340
control, fumigants 4073
wheat, commodities 4073
- Ephestia figulilella***, biology, behaviour 10340
- Ephestia kuehniella***
attractants 721
biology 1903, 6039
behaviour 10340
control
impaction 5086
physical control 11021
diets 1903
insecticides, pathogenicity 3118
morphology 6039
sensilla 9182
parasitoids 173, 245, 418, 556, 1275, 4481, 4489, 5790, 6549, 7397, 7769-7770, 7772-7773
physiology
enzymes 4062
sense organs 90, 9232
plant extracts, effects 4062
predators 4480, 5473, 11429
radiation, effects 2293-2294, 7770, 9282
- Ephestiodes gilvescentella***, biology, behaviour 10340
- Epialtes compuncor*** (see *Apechthis compuncor*)
- Ephippiger***
Europe 6372
genetics 6372
taxonomy 6372
- Ephippiger ephippiger***
biology, behaviour 8271
physiology, growth 10257
songs 8271
- Ephippiger terrestris***
France 6373
taxonomy 6373
- Ephydridae**
biology, phenology 10915
nurseries, British Columbia 10915
plant pathogens, interactions 10915
- Epiblema rosaecolana***
anatomy, genitalia 1756
distribution, Spain 1756
Rosa 1756
- Epiblema scudderiana***
cold resistance 2305, 3368, 6402
Ontario 3368
physiology
environmental factors 58
metabolism 2305
Solidago, galls 3368
- Epiblema uddmanniana***
biology 507
control, insecticides 507
raspberries, USSR 507
- Epicampocera succincta***
Cruciferae, fields, Japan 3845
hosts, *Pieris* 3845
- Epicauta***
ecology 10650
insecticides, toxicity 3842
lucerne, Kansas 10650
okras, India 3842
- Epicauta fabricii***
control 3035
Gleditsia 3035
- Epicauta pensylvanica***
biology, behaviour 340
Solidago, Minnesota 340
- Epichoristodes***, pheromones 10274
- Epichoristodes acerbella***
control, mating disruption 2944
monitoring, traps 2944
ornamental plants, Italy 2944
sex pheromones 2944
- Epidinocarsis lopezi***
biology
development 2877
environmental factors 4892-4893
reproduction 6936
cassava
fields
Africa 6934, 9842, 10836
Congo 2100, 5852, 6935
Nigeria 6936
West Africa 11746
Congo 10837
control, *Phenacoccus manihoti* 5852, 6934-6935, 9842, 10836, 11746
hosts, *Phenacoccus manihoti* 2100, 2877, 4892-4893, 6936
natural enemies 10837
parasitoids 6935
rearing techniques 6936
- Epilachna***
aubergines, India 11758
control, insecticides 11758
genetics, karyotypes 5344
- Epilachna cacica***
morphology 5800
pumpkins, Brazil 5800
- Epilachna clandestina***, morphology 5800
- Epilachna dodecastigma***
food plants, Indonesia 2553
morphology 2553
- Epilachna enneasticta***
food plants, Indonesia 2553
morphology 2553
- Epilachna niponica***
biology 3622
Cirsium, Japan 1385
Cirsium nipponicum, Japan 3622
evolution 1385
- Epilachna ocellata***
insecticides, toxicity 2872
Momordica charantia, India 2812
parasitoids 2812
potatoes, India 2872
- Epilachna paenulata***, morphology 5800
- Epilachna septima***
Momordica charantia, Indonesia 2553
morphology 2553
- Epilachna varivestis***
beans, Mexico 632
biology 630
development 133
phenology 632
- Epilachna varivestis* cont.**
control 1639
crops, Mexico 402, 630
insecticides
metabolism 2814
toxicity 8083-8084
natural enemies 630
parasitoids 5461
Phaseolus vulgaris
Mexico 631
Virginia 1639
physiology
enzymes 2814
nutrition 11728
plant extracts, effects 2582
predators 5818
soyabeans
damage 11728
Indiana 5818, 9809
resistance 1665, 2841, 5817
tillage, effects 402
- Epilachna vigintioctomaculata***
ecology, distribution 5845
parasitoids 3914
potatoes, China 5845
sampling 5845
Solanum, Korea Republic 3914
- Epilachna vigintioctopunctata***
aubergines, India 3855, 11759
Australasia 3430
biology, food preferences 3860
control, insecticides 3855, 11759
food plants 3860
Indonesia 2553
growth regulators, effects 990
insecticides, toxicity 5846, 11971
morphology 2553, 3430
pupae 9185
plant extracts, toxicity 938
potatoes 5846
sex determination 9185
sterilization 6390
taxonomy 3430
- Epilachna yasutomii***
biology 3622
Caulophyllum robustum, Japan 1385
evolution 1385
predators 3622
Scopolia japonica, Japan 3622
- Epilachninae**
Australasia 3430
crops, Mexico 630
distribution, Oriental Region 4407
morphology 3430
natural enemies 630
taxonomy 3430
- Epilobium angustifolium***
Aphis varians
Colorado 8285
Washington 3614
ecology, population dynamics 8285
Formica, interactions 8285
habitats, *Hippodamia convergens*, Washington 3614
- Epilobium hirsutum***, *Mompha sub-divisella*, UK 9505
- Epinotia celtisana***
taxonomy
synonyms
Epinotia laracana 2143
Proteopteryx laracana 2143
- Epinotia kasloana***
jojoba, USA 3921
parasitoids 3921
- Epinotia laracana***, taxonomy, synonyms, of *Epinotia celtisana* 2143
- Epinotia pygmaeana***
forest trees, Switzerland 10988
pathogens 10988
- Epinotia tedella***
monitoring, traps 3024
pheromones 3024
Picea abies, German Federal Republic 3024
- Epinotia vertumnana* group**, taxonomy 2143
- Epiphyas postvittana***
apples, New Zealand 6814, 10700
biology
behaviour 9311
development 8546

***Epiphyas postvittana* cont.**

biology cont.

nutrition 10328

reproduction 10329

Botrytis cinerea, interactions 1551

food plants 8546

genetics 6814

grapes 1551

insecticides, resistance 6814, 10700

physiology

enzymes 10700

pheromones 9311

rearing techniques 4421

Epiphyllum*, seeds, *Camponotus*femoratus*, Peru 10402***Epipyrops melanoleuca* (see *Epiricania melanoleuca*)*****Epiricania melanoleuca***

biology, overwintering 6691

control, *Pyrilla perpusilla* 6689, 7585

hosts

Hemiptera 361

Pyrilla perpusilla 2595, 5471, 6691,

8392

Ricania zebra 1425

India 8392

natural enemies 8392

storage 5471

sugarcane, plantations, India 361,

1425, 2595, 6689, 7585

Epirrita autumnata*Betula nana*, Europe 7033*Betula pubescens*, Scandinavia 10003

biology 3986

environmental factors 10003

cold resistance 10003

food plants 3986

Episesamin*, synergism 10106**Epistrophe balteata* (see *Episyrphus balteatus*)*****Episyrphus alternans***

Indian mustard, fields, India 6873

parasitoids 6873

Episyrphus balteatus

apples, orchards, India 1561

biology 9763

deltamethrin, effects 4653

ecology, population dynamics 6563

food plants 6563

German Federal Republic 1432

Indian mustard, fields, India 2810,

6873, 8685

insecticides, effects 1432, 3662

Japan 1863

maize, fields, German Federal Republic

4653

parasitoids 6873

pesticides, effects 2480

plums, orchards, India 4763

prey

Aphididae 1432-1433, 2480, 2617,

2810, 3662, 4653

Aphis pomi 1561*Brevicoryne brassicae* 9763*Hyalopterus pruni* 4763*Lipaphis erysimi* 8685*Toxoptera odinae* 1863

UK 6563

wheat, fields, German Federal Republic

1433, 2617, 3662

Epitrimerus*, fruits, damage 2694**Epitrimerus amoni****Amomum villosum*, China 5947

taxonomy, new species 5947

Epitrimerus dimocarpi*Dimocarpus longan*, China 5947

taxonomy, new species 5947

Epitrimerus elaeis

oil palms, Ivory Coast 6784

taxonomy, new species 6784

Epitrimerus vitis* (see *Calepitrimerus vitis*)**Epitrix***

biology, phenology 9827

natural enemies 9827

potatoes, Brazil 9827

Epitrix cucumeris

biology, phenology 8737

ecology, distribution 6921

potatoes

Manitoba 8737

Prince Edward Island 6921

***Epitrix cucumeris* cont.**

sampling 6921

Epitrix hirtipennis

control, insecticides 9890

tobacco, Italy 9890

EPN (*O*-ethyl *O*-(4-nitrophenyl)

phenylphosphonothioate)

metabolism, rats 2026

sorption, soil 2004

toxicity, *Chelonus blackburni* 8390**(3Z,6Z)-1,3,6-9,10-Epoxyeicosatriene,**pheromones, *Hyphantria cunea* 2227**(3Z,6Z)-cis-9,10-Epoxy-(3Z,6Z)-3,6-hene-**

icosadiene, mixtures, pheromones,

Lepidoptera 3959

cis-9,10-Epoxy-(3Z,6Z)-3,6-heneicosadiene,pheromones, *Cymbalophora pudica*

1084

(3Z,6Z)-1,3,6-9,10-Epoxyheneicosatriene,pheromones, *Hyphantria cunea* 2227**(3Z,6Z)-cis-9,10-Epoxy-1,3,6-**

heneicosatriene

pheromones, *Hyphantria cunea* 7242

synthesis 7242

(Z)-cis-9,10-Epoxy-6-heneicosenepheromones, *Phragmatobia fuliginosa*

10279

synthesis 10279

(3Z,6Z)-cis-9,10-Epoxy-1,3,6-icosatriene,pheromones, *Hyphantria cunea* 7242**(3Z, 6Z)-cis-9,10-Epoxy-1,3,6-icosatriene,**

synthesis 7242

(Z)-(1'S,3'R,4'S)-2-(3',4'-Epoxy-4'-

methylcyclohexyl)-6-methylhepta-2,5-

diene, pheromones, *Nezara viridula*

7346

(3Z,9Z)-3,9- ϵ cis-6,7-Epoxyonadecadiene,

pheromones, Geometridae 10277

EPTC

insecticides, interactions 9567

with insecticides, control, *Diabrotica*

4647

Eपुरaea

attractants 803

Pinus sylvestris, Sweden 803**Equipment (see also Traps)**

anaesthesia, Araneae 10379

application, microbial pesticides 4158

applicators

fumigants 10092

insecticides 7942

pesticides 10092

boxes, microscope slides 10389

cages

Aleyrodidae 3808

Trioxa erytrae 2769

collecting apparatus, insects 7458

containers, pesticides 11134

detectors

pesticides, residues 11149

stored products pests 11040

dispensers, insecticides 10370

flight mills, insects 4418

harvesters, silkworms 1370

heaters, plants, roots 2389

incubators, insects 11409

photography, Lepidoptera, genitalia

3454

plant protection

legislation 11126

testing 11125

quality controls, *Trichogramma* 272

recording instruments, Delphacidae,

sound production 9354

release, *Trichogramma* 171-172, 905

samplers

arthropods 1206

peaches 6824

sprayers

application, remote control 6129

greenhouses 7446

insecticides 188, 1599, 2391, 6147,

7940, 10859

application 6138

cotton 3936

pesticides, strawberries 503

research 8306

simulated spray drift 5394

spraying equipment, rowcrops 7251

stimulation, insects, olfactory organs

3455

Equipment cont.

ultralow volume sprayers 7161

***Equisetum*, habitats, invertebrates, USSR**

3420

Eragrostis curvula

Formicidae, secretions, germination,

inhibitors 1230

habitats, *Anthonomus grandis*, Texas

4937

Thripidae, Texas 9524

Erannis defoliaria

biology 8832

control, insecticides 1802

Fagus sylvatica, Spain 8832

Hungary 10277

morphology 8832

pheromones 10277

Quercus, USSR 1802***Eranthemum pulchellum*, *Eriophyes acan-***

thus, galls 777

***Eremninae*, physiology, reproductive organs**

4332

Eremnus setulosus

control, physical control 4720

grapes, South Africa 4720

Eremochloa ophiuroides*, *Achurum*carinatum*, Florida 2669***Eremotermes paradoxalis*, cotton, Pakistan**

4917

Eretmocerus aleyrodiphaga

cassava, fields, Colombia 711

hosts, Aleyrodidae 711

Eretmocerus delhiensis*, taxonomy, syno-**nyms, *Eretmocerus mashhoodi* 1302Eretmocerus indicus****Citrus*, orchards, Pakistan 2759hosts, *Aleurocanthus woglumi* 2759***Eretmocerus mashhoodi*, taxonomy, syno-**nyms, of *Eretmocerus delhiensis* 1302***Ereynetes propescutulis***

Scolytidae, interactions 12

taxonomy, new species 12

Ereynetes sinescutulis*Ips pini*, interactions 12

taxonomy, new species 12

Ergates faber

biology 7020

Pinus, Spain 7020

rearing techniques 7020

Ergolis merione* (see *Ariadne merione*)**Erianthus munja*, *Melanaspis glomerata***

2469

Eriaporinae*, taxonomy 6255**Eriborus***

biology, phenology 9818

Cicer arietinum, fields, India 9818hosts, *Helicoverpa armigera* 9818***Eriborus argenteopilosa***

biology 9815

hosts, *Spodoptera litura* 9815***Eriborus trochanteratus***hosts, *Opisina arenosella* 10458

insecticides, toxicity 10458

Erica*Aleurolobus olivinus*, Europe 9912

Aleyrodidae, Europe 9912

arthropod pests 11243

books 11243

***Erica arborea*, *Tetralicia iberiaca*, Europe**

9912

***Erica lusitanica*, *Tetralicia iberiaca*,**

Europe 9912

Ericaceae*, extracts, repellents, *Lepti-*notarsa decemlineata* 6922***Ericerus pela***

biology 789, 7402

China 7402

food plants, China 789

parasitoids 789

***Erigeron annuus*, *Lygus lineolaris*, USA**

1397

Erigeron glaucus*Apterothrips secticornis*, California 462

insect pests, California 3632

Erigone

ecology, population dynamics 11710

prey, *Empoasca* 11710

squashes, fields, California 11710

Erigone atra

arable land, Netherlands 7271

fields, Netherlands 6526

Erigone atra cont.
indicator species, pesticides, nontarget effects 7271
insecticides, toxicity 7271
monitoring, traps 6526
pesticides, effects 6526

Erigone dentipalpis
fields, Netherlands 6526
monitoring, traps 6526
pesticides, effects 6526

Erigonidae
fields, Netherlands 6526
monitoring, traps 6526
pesticides, effects 6526

Erigonidium graminicolum
prey, *Nilaparvata lugens* 10629
rice, fields, China 10629

Erinaceus europaeus
China 3627
prey, *Adosomus* 3627

Erinnyis ello
biology, behaviour 4890
cassava
Brazil 8748
Colombia 712, 4890
control, microbial pesticides 712
food plants, Brazil 8335
morphology 8748
parasitoids 217, 8335

Eriobotrya japonica (see Loquats)

Eriocampa juglandis
biology 5039
Juglans, Alabama 5039

Eriococcidae
distribution, Pacific Islands 7273
parasitoids 3515, 6591
taxonomy 7273

Eriococcus, taxonomy 2937

Eriococcus munroi
biology 11523
Thymus, Italy 11523

Eriococcus williamsi
Buxus sempervirens, USSR 2937
taxonomy, new species 2937

Eriocottidae
biology 1006
Gramineae 1006
phylogeny 5
taxonomy 1006
USSR, books 1006

Eriocraniidae
Betula, USSR 3046
distribution 3046

Eriogonum fasciculatum, *Euphilotes bernardino*, Mexico 10524

Eriophora pustulosa (see *Araneus pustulosus*)

Eriophora ravilla
Florida 8354
prey, *Ceraeochrysa cubana* 8354

Eriophyes
fruits, damage 2694
morphology 2125
taxonomy 2125, 9674

Eriophyes acanthus
Egypt 777
Eranthemum pulchellum, galls 777
taxonomy, new species 777

Eriophyes afroensis
Syzygium, South Africa 9674
taxonomy, new species 9674

Eriophyes caulobius, taxonomy, to *Aceria* 3628

Eriophyes emarginatae
Prunus americana, galls 8877
USA 8877

Eriophyes ensifoliae
Commelina ensifolia, India 10738
taxonomy, new species 10738

Eriophyes guerreronis (see *Aceria guerreronis*)

Eriophyes insidiosus, peach mosaic virus, transmission 1568

Eriophyes laevis
Alnus glutinosa
Finland 8856
galls 8856
ecology, distribution 8856

Eriophyes latifolii
Podocarpus latifolius, South Africa 9674

Eriophyes latifolii cont.
taxonomy, new species 9674

Eriophyes lonchocarpi
Lonchocarpus capassa, South Africa 9674
taxonomy, new species 9674

Eriophyes mitis
Ilex mitis, South Africa 9674
taxonomy, new species 9674

Eriophyes pyri
distribution, South Africa 9674
pears, USSR 1567

Eriophyes pyri complex
apples, Ontario 8586
ecology, population dynamics 8586
predators 8586

Eriophyes quadrifidus
Pteridium aquilinum, South Africa 9674
taxonomy, new species 9674

Eriophyes tulipae (see *Aceria tulipae*)

Eriophyes vitis (see *Colomerus vitis*)

Eriophyidae
America 11827
apples
habitats, Ontario 4753
Netherlands 10709
China 1829
control
insecticides 10671
integrated control 10709
crops
Hungary 4422
Italy 2554
detection 4422
ecology, population dynamics, models 4753
prey, mites 4753
small fruits, Belgium 10671
taxonomy 1829
woody plants 10469

Eriopsis connexa
biology, phenology 3656
pathogens 3878
wheat, fields, Brazil 3656

Eriopyga infirma (see *Orthodes infirma*)

Eriosoma
taxonomy 5264
Ulmus 5264
galls 9940

Eriosoma auratum
biology, behaviour 9940
Ulmus, Japan 9940

Eriosoma harunire
biology, behaviour 9940
Ulmus, Japan 9940

Eriosoma lanigerum
apples 10391
India 3783, 4510, 6812
Washington 3792
biology 3792
control 3792
biological control 6812
parasitoids 8372, 11446
predators 4510
quarantine 10391

Eriosoma moriokense
biology, behaviour 9940
Ulmus, Japan 9940

Eriozona syrphoides, distribution, UK 2363

Eriurhipidia, taxonomy, synonyms, of *Euphoria* 1039

Eristalinus arvorum, physiology, reproductive organs 4534

Eristalis
predators 5463
UK 5463

Eristalis arvorum (see *Eristalinus arvorum*)

Eristalis pertinax
biology, behaviour 9985
woodlands, UK 9985

Eristalis tenax
ecology, population dynamics 6563
food plants 6563
morphology, spermatheca 4486
physiology
flight 8227-8228
senses 8250
UK 6563

Eristicus clericus
biology 11609
hosts, *Ostrinia nubilalis* 11609
maize, fields, Italy 11609

D-Eritadenine, chemosterilants, *Pyrrhocoris apterus* 2297

Ernestia consobrina
hosts, *Mamestra brassicae* 1963
pathogens 1963
rearing techniques 1963

Ernobius punctulatus
control, insecticides 6007
Pseudotsuga menziesii, California 6007

Erodium texanum, *Pogonomyrmex rugosus*, interactions 2430

Erotylidae, taxonomy 5263

Erthesina fullo
forest trees, Taiwan 7069
physiology, pheromones 7069

Eruca sativa (see *E. vesicaria*)

Eruca vesicaria
Apis florea, pollination 5438
Myzus persicae
India 1719, 10853
varietal susceptibility 2896
oils, toxicity, *Sitophilus oryzae* 7110

Erwinia carotovora subsp. *carotovora*, attractants, *Delia antiqua* 716

Erwinia stewartii, vectors, *Chaetocnema pulicaria* 1450

Eryciina, taxonomy 5954

Erynia crustosa
culture techniques 5971
hosts, *Malacosoma disstria* 5971

Erynia delphacis, hosts, Delphacidae 1479

Erynia humbersi, hosts, Tipulidae 8985

Erynia neoaphidis
hosts
Acyrtosiphon pisum 2818
Aphididae 5122, 5771, 9631
Lipaphis erysimi 8679
Pemphigus populivenerae 8732
Sitobion avenae 2604
identification, immunology 6066

Erynia nouri, hosts, Aphididae 5771

Erynia occidentalis, hosts, Aphis 8985

Erynia phytonomi
hosts
Hypera 9636
Hypera postica 11606, 11608

Erynia pieris, hosts, *Histia rhodope* 8435

Erynia radicans
hosts
Acyrtosiphon pisum 2818
Aphididae 5771
Choristoneura fumiferana 7073
Delphacidae 1479
Empoasca fabae 5137
insects 3878
identification, immunology 6066
morphology, appressoria 11921
viability, determination 11917

Eryniopsis lampyridarum, hosts, Cantharidae 4091

Erysimum cheiranthoides
extracts
oviposition deterrents, *Pieris rapae* 8423
repellents, *Pieris rapae* 2581

Erysiphe cichoracearum, biological control 2732

Erysiphe graminis, Aphididae, interactions 2608

Erysiphe pisi, control, insecticides 10792

Erythmelus helopeltidis
cashews, plantations, India 6799
hosts, *Helopeltis antonii* 6799

Erythmelus miridiphagus
Amaranthus retroflexus, habitats, Quebec 6652
hosts, *Lygus lineolaris* 6652

Erythraeidae
hosts, *Enoplognatha ovata* 8359
Maine 8359

Erythrina, *Terastia meticulosalis*, India 3001

Erythrina costaricensis, *Brevipalpus pseudostriatus*, Costa Rica 802

Erythroneura
monitoring, traps 6890
soybeans, Argentina 6890

- Erythroneura clavata**
Gleditsia triacanthos, Ohio 10951
 sampling 10951
- Erythroneura elegantula**, grapes, California 5712
- Erythroneura variabilis**
 grapes, California 5712
 parasitoids 5712
- Erythrophleum fordii**, *Sinacus erythrophlei*, China 5948
- Erythrothrips asiaticus**
 India 2468
 prey, Thysanoptera 2468
- Erythroxylum coca**, *Eloria noyesi*, damage 3638
- Escherichia coli**
 hosts, *Manduca sexta* 5474
Pieris brassicae, serum, effects 4199
- Eserine**, resistance, *Lygus hesperus* 11166
- Esfenvalerate** ([S-(R*,R*)]-cyano(3-phenoxyphenyl)methyl 4-chloro- α -(1-methylethyl)benzeneacetate)
 control
Anthonomus grandis 6982
 cotton, insect pests 2924
Cydia pomonella 8583
Neoleucinodes elegantalis 8757
 Thysanoptera 6940
 determination 6480
 resistance, *Heliothis virescens* 2915
 toxicity
Aphidius gifuensis 7509
Scolytus multistriatus 5051
Trichoplusia ni 9063
- Essential oil plants**
 India, books 6222
 pest control 6222
- Estigmene acraea**
 alkaloids, effects 108
 pheromones 108
 predators 5550
- Estigmene congrua** (see *Spilosoma congrua*)
- Estragole**
 analogues
 attractants
Diabrotica barberi 2636
Diabrotica undecimpunctata howardi 2636
Diabrotica virgifera virgifera 2636
- Etaphos**
 control
Quercus, Lepidoptera 1768
 Tetranychidae 5738
 nontarget effects, beneficial arthropods 5738
 resistance, *Tetranychus urticae* 3161
- ETB** (see Ethyl 4-[2-(*tert*-butylcarbonyloxy) butoxy]benzoate; Ethyl 4-[2-(*tert*-butylcarbonyloxy) butoxy]benzoate)
- Ethanol**
 attractants
 Coleoptera 803
 Curculionidae 8896
Hylobius abietis 8825, 10920
Tomicus piniperda 794
 mixtures
 attractants
 Curculionidae 5949
Hylobius 8873
Hylobius abietis 8825
Melanagromyza obtusa 5827
 effects, *Thanasisus formicarius* 2990
 synergism 11822
- Ethiofencarb** (2-[(ethylthio)methyl]phenyl methylcarbamate)
 control, *Schizaphis graminum* 8511
 residues, lettuces 9749
- Ethion** (S,S'-methylene bis(O,O-diethyl phosphorodithioate))
 control
Amsacta albistriga 2846
Phyllocoptruta oleivora 6839
Quadraspidiotus perniciosus 9681
Raoiella indica 7711
Tetranychus macfarlanei 2794
 effects, parasitoids 2846
- Ethion cont.**
 mixtures
 control, *Phyllocoptruta oleivora* 9720
 nontarget effects, *Eutetranychus banksi* 9720
 residues
 oranges, commodities 4191
 sorghum 11584
 resistance, *Tetranychus urticae* 9058-9059
 toxicity, *Chrysoperla externa* 8336
- Ethiopia**
Aleuroplatus cadabae, parasitoids 9147
 Aphididae, natural enemies 10554
 Bruchidae 7441
Busseola fusca 407, 412, 6711
 Citrus, orchards, insects 1582
Ophiomyia phaseoli, parasitoids 639
Phthorimaea operculella 8741
Spodoptera exempta 3140
Striga hermonthica, natural enemies 9489
- Ethiopian mustard** (see *Brassica carinata*)
- Ethmia bipunctella**
Alkanna tuberculata, damage 8439
 biology, behaviour 10534
Cynoglossum officinale, Netherlands 10534
- Ethoprophos** (O-ethyl S,S-dipropyl phosphorodithioate)
 control
Agrypnus variabilis 8658
 groundnuts, diseases 10809
Lissorhoptrus brevisrostris 8507
 1-(3-Ethoxybutoxy)-4-phenoxybenzene
 effects, *Galleria* 1979
 toxicity, *Tribolium castaneum* 7979
 5-Ethoxy-6-(4-methoxyphenyl)methyl-1,3-benzodioxole, effects, *Ceratitis capitata* 7236
 1-[(4-Ethoxy-2-methyl-2,4-pentadienyl)oxy]-3-(phenylmethyl)benzene
 effects, *Galleria* 1979
 toxicity, *Tribolium castaneum* 7979
 1-(2-Ethoxypropoxy)-4-phenoxybenzene
 effects, *Galleria* 1979
 toxicity, *Tribolium castaneum* 7979
- Ethroprop**, control, tomatoes, insect pests 1714
- Ethyl 4-[2-(*tert*-butylcarbonyloxy) butoxy]benzoate**, effects, *Mamestra brassicae* 9253
- Ethyl 4-[2-(*tert*-butylcarbonyloxy) butoxy]benzoate**
 effects, *Bombyx mori* 1357
 synthesis 1357
- Ethyl 11-chloro-3,7,11-trimethyl-2(E)-dodecanoate**, effects, *Nezara viridula* 4172
- Ethyl 11-chloro-3,7,11-trimethyl-2(E)-dodecanoate**, effects, Pyralidae 2071
- Ethyl trans-cinnamate**, mixtures, pheromones, *Cydia molesta* 7734
- Ethyl-DDD** (1,1'-(2,2-dichloroethylidene) bis[4-ethylbenzene])
 resistance, *Cacopsylla pyricola* 1565
- Ethyl (S)-3-hydroxybutanoate**, synthesis 1090
- Ethyl methanesulfonate**
 effects, *Phthorimaea operculella* 1684
 mutagenesis, *Drosophila* 11957
- Ethyl 2-methylbutanoate**, attractants, *Rhagoletis mendax* 508
- Ethyl (E)-3-methyl-2-dodecanoate**
 effects
Bombyx mori 1357
Mamestra brassicae 9253
 synthesis 1357
- Ethyl nitrosourea**, mutagens, *Drosophila melanogaster* 7385
- N-Ethylcarbamic acid 2-(4-phenoxyphenoxy)ethylester**
 effects, *Galleria* 1979
 toxicity, *Tribolium castaneum* 7979
- 2-Ethyl-1,6-dioxaspiro[4.4]nonane**, pheromones, *Pityogenes chalcographus* 63
- Ethylene dibromide**
 control, Citrus, commodities, insect pests 1912
- Ethylene dibromide cont.**
 mixtures, toxicity, *Tribolium castaneum* 7181
 residues
 Citrus, commodities 1912
 fruits, commodities 11017
 toxicity, maize 7602
- Ethylene oxide**
 control, *Tinea pellionella* 1888
 fumigants, interactions 2006
 toxicity, stored products pests 845
- Ethyleneimine**, mutagenicity, insects 10098
- Ethylenethiourea**, residues, analysis 11148
- 2-(2-Ethylhexyl)-3a,4,7,7a-tetrahydro-4,7-methano-1H-isindole-1,3(2H)-dione**, synergism 11169
- Ethylparathion** (see Parathion)
- (E)-3-[5-(4-Ethylphenoxy)-3-methyl-3-pentenyl]-2,2-dimethylloxirane**
 effects, *Lipaphis erysimi* 5218
 toxicity, *Lipaphis erysimi* 9778
- N-Ethyl-O-[2-(4-phenoxyphenoxy)-ethyl]carbamate**, control, *Adoxophyes orana* 4762
- N-Ethyl-O[2-(4-phenoxyphenoxy) ethyl]carbamate**, effects, Tortricidae 3777
- N-[[[(4-Ethylphenyl)amino]carbonyl]-2,6-difluorobenzamide**, sterilization, *Epilachna vigintioctopunctata* 6390
- 1-[(4-Ethylphenyl)methoxy]-4-phenoxybenzene**
 effects, *Galleria* 1979
 toxicity, *Tribolium castaneum* 7979
- (2S,3R)-1-Ethylpropyl 2-methyl-3-hydroxy-pentanoate**, pheromones, *Sitophilus granarius* 1086
- Etiella zinckenella**
 biology
 behaviour 1526
 phenology 1669
Cajanus cajan, Puerto Rico 1669
 Cape Verde 907
 control
 biological control 907
 insecticides 1649
 crops, Cape Verde 151
Crotalaria, Puerto Rico 1526
 food plants, Puerto Rico 1527
 monitoring, traps 1662, 1669
 natural enemies 1527
 parasitoids 9804
Phaseolus vulgaris, Brazil 9785
 pheromones 1662
Robinia pseudoacacia, Hungary 1662
 soybeans
 Egypt 1662
 Puerto Rico 9804
 resistance 10805
Vigna radiata, India 1649
- Etofenprox** (1-[[2-(4-ethoxyphenyl)-2-methylpropoxy]methyl]-3-phenoxybenzene)
 control
Myzus persicae 10851
Nilaparvata lugens 10109
 effects, fishes 8083
 nontarget effects 10109
 photolysis 958
 toxicity
 arthropods 11963
Cyrtorhinus lividipennis 11464
 Delphacidae 10104
 insects 8083, 10109
Mythimna separata 5668
- Etridiazole**, effects, *Beauveria bassiana* 5110
- Etrinfos** (O-(6-ethoxy-2-ethyl-4-pyrimidinyl) O,O-dimethyl phosphorothioate)
 control
Frankliniella occidentalis 7901
 Tortricidae 536
 effects, *Saintpaulia ionantha* 9908
 mixtures, effects, *Saintpaulia ionantha* 9908
 nontarget effects, *Pterostichus* 9444
 persistence 10034
 toxicity
Callosobruchus 10034
 stored products pests 846

- Euantissa pulchra**
biology, environmental factors 1336
prey, *Drosophila* 1336
- Eubazus**
ecology, population dynamics 8838
hosts, *Pissodes castaneus* 8838
Pinus, forests, France 8838
- Eubazus atricornis**
Europe 6000
hosts, *Pissodes* 6000
- Eublemma dimidialis**, *Vigna radiata*, India 1651
- Eublemma scitula** (see *Coccidiphaga scitula*)
- Eublemma silicula**
control, insecticides 2662
sorghum, India 2662
- Eucalyptus**
Cerosterna scabrador, damage 1782
Crossotarsus externedentatus 6457
Dorathynus kateae, Australia 17
Drosophila flavohirta 2992
Glycaspis
host specificity 2960
Queensland 3028
habitats, *Tetrastichus* 2992
insect pests
Australia 4006
control 3019
damage 4006
India 3019
USA 4006
Isoptera, damage 5508
Lepidiotia alticalceus, Western Australia 805
Lepidoptera, Brazil 10914
Macrotermes natalensis, varietal susceptibility 5041
Macrotermitinae, damage 831
Oiketicus kirbyi 816
oils, effects, *Earias vittella* 4185
Orthezia insignis, India 3979
Perga affinis, Australian Capital Territory 5026
Phylacteophaga, Australasia 5959
plantations
beneficial insects, Brazil 10914
Nesolynx, Brazil 2971
Psorocampa denticulata, Brazil 2971
Porotermes adamsoni, South Australia 11855
repellents, *Sitophilus* 8944
Sabulodes 5953
Trachymela tincticollis, Australia 3021
Uraba lugens, South Australia 8915
Eucalyptus blakelyi, *Paropsis atomaria* 5958
Eucalyptus brokway, *Phoracantha semipunctata*, Morocco 8833
Eucalyptus camaldulensis
Phoracantha semipunctata, Morocco 8833
wood, Isoptera, damage 1794
Eucalyptus cladocalyx, *Phoracantha semipunctata*, Morocco 8833
Eucalyptus cloeziana, *Oxydia vesulia*, damage 7922
Eucalyptus dealbata, *Dorathynus althoferi*, Australia 17
Eucalyptus deglupta
Agrilus sexsignatus, damage 1813
Leucopholis irrorata, resistance 11791
Eucalyptus dunnii, *Macrotermes natalensis*, varietal susceptibility 5041
Eucalyptus fibrosa fibrosa, *Glycaspis dulcieana*, Queensland 3028
Eucalyptus gamophylla, *Dorathynus aliceae*, Australia 17
Eucalyptus globulus, *Phoracantha semipunctata*, Morocco 8833
Eucalyptus gomphocephala, *Phoracantha semipunctata*, Morocco 8833
Eucalyptus grandis
Macrotermes natalensis
South Africa 4010
varietal susceptibility 5041
Trachymela tincticollis, South Africa 3021
Eucalyptus leucoxydon, insect pests, Australia 11005
Eucalyptus macarthurii, *Macrotermes natalensis*, varietal susceptibility 5041
Eucalyptus macrorhyncha, *Parepispars virgatus*, New South Wales 11803
Eucalyptus mannifera, *Eurymeloides punctata*, Australia 8857
Eucalyptus marginata
forests, *Enytus*, Western Australia 10966
Perthida glyphopa, Western Australia 3029, 10966
Eucalyptus melliodora, insect pests, Australia 11005
Eucalyptus pauciflora
Chrysophtharta hectica, New South Wales 7935
insect pests, Australia 11005
Eucalyptus regnans
Cardiaspina bilobata, Australia 806
Chrysophtharta bimaculata, Tasmania 10965
forests, Coccinellidae, Tasmania 10965
Eucalyptus rostrata, volatile compounds, effects, *Earias vittella* 4185
Eucalyptus rupicola, *Glycaspis rupicolae*, New South Wales 2959
Eucalyptus salmonophloia, *Phoracantha semipunctata*, Morocco 8833
Eucalyptus seeana, *Glycaspis incompta*, Queensland 2961
Eucalyptus squamosa, *Glycaspis nancyana*, New South Wales 2959
Eucalyptus stellulata, *Chrysophtharta hectica*, New South Wales 7935
Eucalyptus stricta
Glycaspis constricta, galls 2959
Glycaspis rupicolae, New South Wales 2959
Eucalyptus tetragona, *Cardiaspina tetragona*, Australia 806
Eucalyptus tetradonta, *Cardiaspina tetradontae*, Australia 806
Eucalyptus torquata, *Phoracantha semipunctata*, Morocco 8833
Eucalyptus urophylla, *Leucopholis irrorata*, resistance 11791
Eucalyptus viminalis
Eurymeloides punctata, Australia 8857
insect pests, Australia 11005
Eucelatoria
hosts, *Spodoptera frugiperda* 8476
maize, fields, Brazil 8476
Eucelatoria bryani
attractants 7873
biology 8388
hosts
Helicoverpa armigera 242, 2886, 6529, 8388
Heliopsis 7873
insecticides, toxicity 6529
parasitoids 2886
tomatoes, fields, India 2886
Eucelatoria punctipennis
Betula pendula, UK 9990
biology 9990
Euceros superbus
hosts, Lepidoptera 2982
Quercus, forests, Romania 2982
Eucharitidae
biology 4153
behaviour 4447
control, Formicidae 4153
hosts, Formicidae 4447
reviews 4153
Thysanoptera, interactions 4153
Euchirinae, taxonomy 7440
Euchistus heros, soyabeans, Brazil 4855
Euchloe ausonia, morphology 4281
Euchorthippus chopardi, genetics, chiasmata 10320
Euchorthippus pulvinatus, genetics, chiasmata 10320
Euchromia amoena, physiology, senses 1109
Euchromius
biology 1
distribution, Africa 1
taxonomy 1
Euchrysops cnejus
control, insecticides 2827
Vigna unguiculata, India 2827
Euclasta maceratalis, *Gymnanthera nitida*, Queensland 1393
Euclodora cocae (see *Psittacastis cocae*)
Euclidia glyptica
biology 4989
food plants 4989
Spain 4989
Eucoilidae
Taiwan 3523
taxonomy 3523
Euconocephalus thunbergi
prey, *Scirpophaga incertulas* 2648
rice, fields, China 2648
Eucoptacra, taxonomy 10895
Eucoptacra ceylonica
distribution, India 10895
food plants 10895
Eucosma
Pinus 11818
sampling 11818
Eucosma rescissoriana
monitoring, traps 6006
Pinus monticola, Idaho 6006
Eucosma sonomana
biology, phenology 10927
control, mating disruption 10928
Pinus, USA 10927
Pinus ponderosa
California 10928
Oregon 5973
Eucosmini
taxonomy 3424
Vietnam 3424
Euderes westcotti
Quercus, Mexico 2372
taxonomy, new species 2372
Euderomphale vittata
Florida 11431
hosts, *Aleurodicus dispersus* 11431
Eudiagogus pulcher
biology 7553
Sesbania, Texas 7553
Eudiagogus rosenschoeldi
biology 7553
Sesbania, Texas 7553
Eudocima
control 1585
oranges, India 1585
Eudonia bisinualis
biology
development 5360
phenology 5685
pastures, New Zealand 5685
Eudonia philerga
biology
development 5360
phenology 5685
pastures, New Zealand 5685
Eudonia psammitis
biology
development 5360
phenology 5685
pastures, New Zealand 5685
Eudonia sabulosella
biology 4687
development 5360
phenology 5685
pastures, New Zealand 3733, 4687, 5685
pathogens 3733
Eudonia submarginalis
biology
development 5360
phenology 5685
pastures, New Zealand 5685
Eueides isabella dianasa
parasitoids 5755
passion fruits, Brazil 5755
Eugenia
habitats, *Ceraeochrysa cincta*, Florida 1762
Plotococcus eugeniae, Florida 1762
Eugenia malaccensis, *Rhipiphorothrips cruentatus*, Taiwan 2776
Eugenol (2-methoxy-4-(2-propenyl)phenol)
attractants, *Diabrotica* 11543
mixtures
attractants
Scarabaeidae 5772
Scolytidae 2347

- Euglandina rosea*
biology, behaviour 313, 2550
prey, Gastropoda 313, 2550
- Euhadra peliomphala*, physiology, reproduction 2542
- Eulachnus*, taxonomy 7032
- Eulachnus intermedius*
Pinus mugo, Italy 7032
taxonomy, new species 7032
- Eulachnus rileyi*, conifers, Africa 7044
- Eulecanium coryli* (see *E. tiliae*)
- Eulecanium douglasi*
Betula nana, USSR 4539
parasitoids 4539
- Eulecanium tiliae*
food plants, Poland 5068
insecticides, effects 945
parasitoids 5068
- Eulia ministrana*, distribution, Korea Republic 10359
- Eulocastra argentisparsa*
control, *Striga hermonthica*, evaluation 9489
Ethiopia 9489
- Eulophidae**
coffee, plantations, Puerto Rico 1750
Ecuador 1540
hosts
Hispoleptis subfasciata 1540
Kaltenbachiola strobi 5999
Noctuidae 6749
Perileucoptera coffeella 1750
sorghum, fields, USA 6749
- Eulophonotus myrmeleon*
distribution, maps 6456
food plants, Africa 6456
- Eulophus pennicornis*
biology 2511
hosts, Lepidoptera 2511
- Eumaeus atala*
physiology, chemical composition 345
Zamia pumila 345
- Eumenotes obscura*
biology, development 1767
Pharbitis purpurea, Malaysia 1767
- Eumerus*
plant pathogens, transmission 5836
sugarbeet, Wyoming 5836
- Eumerus pulcherrimus*
India 346
plant diseases, interactions 346
- Eumeta variegata*
growth regulators, effects 5297
physiology, endocrine system 5297
- Eumyzus pruni*
morphology 7706
Prunus cornuta, India 7706
- Euoniticellus intermedius* (see *Oniticellus intermedius*)
- Euonymus*, Curculionidae, Belgium 1876
- Euonymus europaeus*, *Yponomeuta padellus*, Poland 5069
- Euonymus fortunei*, *Unaspis euonymi*, damage 5907, 10961
- Euonymus japonica*, *Fiorinia euonymi*, China 3238
- Eupaleopada concinna*, parasitoids 1289
- Euparen M* (see *Tolyfluand*)
- Eupariini*
Korea Republic 9169
taxonomy 9169
- Eupatorium adenophorum* (see *E. trapezoideum*)
- Eupatorium capillifolium*, arthropods, North Carolina 2601
- Eupatorium fistulosum*, *Chauliognathus pennsylvanicus*, Pennsylvania 4091
- Eupatorium odoratum*
Aphis spiraeicola, India 8432
biological control 2571, 5559, 8433
habitats, *Monobremia rishikeshensis*, India 8432
insects, India 336
Mariana Islands 5559
Micronesia 8433
Zonocerus variegatus, Africa 5417
- Eupatorium trapezoideum*, control, biological control 3620
- Eupeliococcus*
Romania 7311
taxonomy 7311
- Eupelmidae**, taxonomy 6255
- Eupelminae**, taxonomy 6255
- Eupelmus**
hosts, *Melanagromyza hibisci* 6862
okras, fields, India 6862
- Eupelmus australiensis*
biology, phenology 4677
hosts, *Contarinia sorghicola* 4677
morphology 4677
sorghum, fields, Argentina 4677
- Eupelmus popa* (see *Eupelmus australiensis*)
- Eupelmus urozonus*
forests
China 7937
Hungary 8851
hosts
Dendrolimus pini 8851
Torymus sinensis 7937
- Eupeodes confrater*
biology 9763
life tables 10772
phenology 4824
cauliflowers, fields, India 8683, 10772
Indian mustard, fields, India 2810, 6873
natural enemies 10772
parasitoids 6873
prey
Aphididae 2810
Brevicoryne brassicae 4824, 8683, 9763, 10772
- Eupeodes corollae*
Aphididae, interactions 2458
biology 2458, 9763
cauliflowers, fields, India 8683
German Federal Republic 1432
insecticides, effects 1432
orchards, Iraq 5736
prey
Aphididae 1432
Brevicoryne brassicae 8683, 9763
Dysaphis pyri 5736
rearing techniques 2458
- Eupeodes latilunulatus*
Indian mustard, fields, India 2810, 6873
parasitoids 6873
prey, Aphididae 2810
- Eupeodes nitens*
biology, behaviour 2679
prey, Aphididae 2679
Vicia sativa, fields, Japan 2679
- Euphasiopteryx*
monitoring, traps 6580
pastures, Florida 6580
- Euphasiopteryx depleta*
control, *Scapteriscus*, evaluation 1519
hosts, *Scapteriscus vicinus* 3501
monitoring 3501
- Euphasiopteryx ochracea*
hosts, *Gryllus* 6580
monitoring, traps 6580
- Euphilotes battoides bernardino*, taxonomy, to *Euphilotes bernardino* 10524
- Euphilotes bernardino*, taxonomy, from *Euphilotes battoides bernardino* 10524
- Euphilotes bernardino garthi*
Eriogonum fasciculatum, Mexico 10524
taxonomy, new subspecies 10524
- Euphorbia**
extracts, antifeedants, *Spodoptera litura* 5224
Trichogramma platneri, food preferences 10719
- Euphorbia antisiphilitica*, *Homoeosoma*, India 11519
- Euphorbia esula*
biological control agents, evaluation 4586
Hyles euphorbiae 5553
Italy 4586
natural enemies, China 4582
North America 4586
Oberea erythrocephala 8415
- Euphorbia heterophylla*, *Tetranychus urticae* 8426
- Euphorbia pulcherrima*
Aleyrodidae 10900
- Euphorbia pulcherrima* cont.
Aleyrodidae cont.
Canada 9925
German Federal Republic 11780
Norway 8809, 10902
- Euphorbia seguieriana*, *Oberea erythrocephala* 8415
- Euphorbia virgata*, *Oberea erythrocephala* 8415
- Euphorbiaceae**, Aleyrodidae, German Federal Republic 7005
- Euphorhipis*, taxonomy, synonyms, of *Euphoria* 1039
- Euphoria**
America 1039
taxonomy 1039
- Euphoriaspis*, taxonomy, synonyms, of *Euphoria* 1039
- Euphornia cyparissias*, *Oberea erythrocephala* 8415
- Euphorocera floridensis*
hosts, *Spodoptera frugiperda* 8476
maize, fields, Brazil 8476
- Euphranta connexa*
ecology, population dynamics 7563
Vincetoxicum hirundinaria, Sweden 7563
- Euphydryas anicia* (see *Occidryas anicia*; *Occidryas chalcona*)
- Euphydryas chalcona* (see *Occidryas chalcona*)
- Euphydryas colon* (see *Occidryas colon*)
- Euphydryas editha* (see *Occidryas editha*)
- Euphydryas editha bayensis* (see *Occidryas editha bayensis*)
- Euphydryas gilletti* (see *Hypodryas gilletti*)
- Euphydryas phaeton*
biology, behaviour 9916
Chelone glabra, Massachusetts 9916
- Euphyllura olivina*
olives, Jordan 6842
physiology, body composition 6842
- Euphyllura pakistanica*, olives, India 4793
- Eupiatomus gracilis*, insecticides, toxicity 8098
- Eupithecia**
biology 10245
distribution, USSR 2376, 2378
morphology 10245
taxonomy 2378, 10245
- Eupithecia bilunulata*
biology, environmental factors 5992
Picea abies, France 5992
- Eupithecia sharronata*
Salix, Canada 10245
taxonomy, new species 10245
- Euplectrus bicolor*
biology 3534
China 3534
hosts, Lepidoptera 3534
- Euplectrus plathypenae*, hosts, insects 2450
- Euploea core corinna*
Marsdenia, Queensland 9503
Parsonia straminea 11514
physiology, nutrition 11514
- Eupoecilia ambiguella*
control
insecticides 2690
mating disruption 6797
distribution, maps 6454
grapes 5717, 6454
German Democratic Republic 2690
Switzerland 6797
growth regulators, toxicity 5717
- Euproctis chrysorrhoea*
biology 527, 8063
control 527, 8063
insecticides 810, 1768, 2690
forest trees, Italy 5970
fruits
German Democratic Republic 2690
USSR 527
morphology 527
outbreaks 8063
parasitoids 5954, 5970
Quercus, USSR 810, 1768
UK 5954, 8063
- Euproctis fraterna*, parasitoids 5479
- Euproctis lunata*
Acacia nilotica, Pakistan 796

- Euproctis lunata** *cont.*
 control, insecticides 796
 insecticides, toxicity 3159
 parasitoids 11461
 pathogens 9861
Ricinus communis, India 9861
- Euproctis pseudoconspersa**
 control, microbial pesticides 1870
 forest trees, China 1870
- Euproctis scintillans**, parasitoids 9410
- Euproctis xanthorrhoea**
 biology, phenology 1744
 jute, Pakistan 1744
 natural enemies 1744
- Eupromus ruber**
Persea thunbergii, Japan 9934
 physiology, nutrition 9934
- Euprosterna elaeisa**
 control, insecticides 1543
 oil palms, Colombia 1543
- Eupterote mollifera**
 biology, environmental factors 6949
Moringa oleifera 6949
- Eupteryx alticola**, *Thymus*, Italy 11523
- Eupteryx atropunctata**, *Thymus*, Italy 11523
- Eupteryx decemnotata**, *Thymus*, Italy 11523
- Eurema smilax**
 biology, migration 1159
 Victoria 1159
- Euremeros gibbosa**
 forests, India 1862
 hosts, *Sinoxylon anale* 1862
- Euremeros mangifera**
 forests, India 1862
 hosts
Sinoxylon 1378
Sinoxylon anale 1862
 India 1378
- Europe**
Amblyseius 10235
Apanteles sensu lato 265
 arthropod pests, maps 6457
Aschitus 3515
Attagenus smirnovi 4406
 Belytinae 7518
Berberomeloe majalis 6531
Camponotus 7482
 Carabidae 158
Carabus 3512
Centaurea, insects 6644
Chaetorellia acrolophi 6639
 Cicadellidae 8549
 Coccinea, books 1009
Corythucha ciliata 4973
 crops, pest control 6130
 Curculionidae 3433
Cynthia cardui 323
 Drosophilidae 6257
Eupoecilia ambiguella 6454
 foods, insecticide residues 8118
 Formicidae 7483
 books 1008
Frankliniella 4264, 6260
 Gelechiidae 3266, 6285
 Geometridae 9975
Glyphina 5000
 grapes
 mites, books 6228
 pest control, conferences 6243
 Hyperini 7461
Hypsicera 3563
 Ichneumonidae 1028
 insect pests, maps 6456, 6460
 insecticides, marketing 1995
 insects, bibliographies 9146
Ips typographus 11850
Kleidocerys 5256
 Lepidoptera, books 8166
Lixus juncii 6458
Lobesia botrana 6243
Macrosiphum albifrons, pathogens 10869
Maculinea 9379
Myrmica rubra 9378
Myzus cerasi 2126, 9694
 Nymphalidae 4413
 pest control
 information 6104
 microbial pesticides 1019, 5161
- Europe** *cont.*
 Phygadeuontinae 8210
 Phyllonorycter 11832
Pissodes, natural enemies 6000
 plant protection, books 10199
Rhagoletis cerasi 3801
 Rhopalocera 9297
 books 11262
Rhopalosiphum padi 5594
 rivers, pollutants 11223
 Scolytidae 7046
 Sesiidae 5251
 sugarbeet, arthropod pests 11739
Tegolophus califraxini 3996
 Tenthredinidae, parasitoids 4041
 Tephritidae 2570
 Tettigoniidae 9269
Thysanoplusia orichalcea 6455
 Tortricidae 3777
Trichomasthus 6591
Varroa jacobsoni 1246
Vespa crabro 6541
Vitula edmandsii 4084
 water, pesticide residues 2037
Xyleborus alni 5027
- European communities**
 animal products, insecticide residues 1891
 insecticides, residues, law 2002
- European larch** (see *Larix decidua*)
- European spruce** (see *Picea abies*)
- Eurosta solidaginis**
 biology, behaviour 10516
 cold resistance 3444, 10350
 ecology, population dynamics 7568
 morphology, reproductive organs 25
 natural enemies 7568
 physiology, environmental factors 58, 783
Solidago altissima
 galls 6134
 Pennsylvania 3616, 7568, 10516
 resistance 5571
Solidago canadensis, galls 783
- Eurya japonica** (see *Cleyera japonica*)
- Eurycoccus**
Acacia 1831
 taxonomy 1831
- Eurycoccus saudiensis**
Acacia asak, Saudi Arabia 1831
 taxonomy, new species 1831
- Eurydema ornatum**, dihydropyrans, effects 6956
- Eurydema rugosa**
 biology, environmental factors 3858
 cabbages, Japan 3858
- Eurygaster**
 monitoring 8461
 wheat, Hungary 8461
- Eurygaster austriaca**
 biology 5582
 cereals, Italy 5582
 control 5582
 morphology, eggs 11292
- Eurygaster integriceps**
 biology 3650
 overwintering 377
 cereals, Iran 3649-3650
 control 3122
 cultural control 4614
 insecticides 373, 377, 379-380, 2618, 3660
 food plants, Iran 341
 forecasting 3122, 8463
 morphology
 eggs 11292
 sense organs 2166
 parasitoids 341, 3649
 USSR 3122
 wheat
 Romania 4614
 USSR 373, 377-380, 2618, 3660, 8463-8464
- Eurygaster maura**, morphology, eggs 11292
- Euryischia**
 hosts, *Icerya purchasi* 5942
 South Australia 5942
- Eurymeloe**
 biology 6252
 taxonomy 6252
- Eurymeloides punctata**
Eucalyptus, Australia 8857
 morphology, nymphs 8857
- Eurymetopum acutipenne**, taxonomy, to *Silviella* 2146
- Eurymetopum nudatum**, taxonomy, to *Silviella* 2146
- Eurystylus**, sorghum, Africa 3717
- Eurystylus marginatus**
 distribution, Sahel 457
 sorghum 457
 Niger 6744
- Eurytides marcellus**
Asimina, Florida 7566
Asimina triloba 3829
 ecology, population dynamics 7566
 plant extracts, effects 3829
- Eurytoma**
 Brazil 835
Cajanus cajan, fields, India 2836
 forests, China 7937
 hosts
Allorhogas 835
Asphondylia riveae 2576
Bessa remota 2701
Cydia critica 2836
Cydia leucostoma 2935
Etiella zinckenella 9804
Melanagromyza obtusa 2813
 Tephritidae 2692
Torymus sinensis 7937
 India 2576, 2692, 2813
 Malaysia 2701
 soyabeans, fields, Puerto Rico 9804
Striga 9489
 tea, plantations, India 2935
- Eurytoma caryedocida**
 hosts, *Caryedon serratus* 3514
 Ivory Coast 3514
 taxonomy, new species 3514
- Eurytoma conapionis**
 hosts, Apionidae 3514
 Ivory Coast 3514
 taxonomy, new species 3514
- Eurytoma dentata**
 hosts, *Asphondylia riveae* 2576
 India 2576
- Eurytoma gigantea**
 ecology, population dynamics 7568
 hosts, *Eurosta solidaginis* 7568
- Eurytoma lamtoensis**
 hosts, Coleoptera 3514
 Ivory Coast 3514
 taxonomy, new species 3514
- Eurytoma mimosarum**
 hosts, Coleoptera 3514
 Ivory Coast 3514
 taxonomy, new species 3514
- Eurytoma minasensis**
 hosts, *Anadiplosis* 1880
Machaerium aculeatum, forests, Brazil 1880
 taxonomy, new species 1880
- Eurytoma obtusiventris**
 ecology, population dynamics 7568
 hosts, *Eurosta solidaginis* 7568
- Eurytoma onobrychidis**
 biology, phenology 5688
 cold storage, effects 5688
 parasitoids 5688
 sainfoin, Alberta 5688
- Eurytoma piezotrachelii**
 hosts, *Piezotrachelus* 3514
 Ivory Coast 3514
 taxonomy, new species 3514
- Eurytoma risbecomaphaga**
 hosts, *Risbecoma* 3514
 Ivory Coast 3514
 taxonomy, new species 3514
- Eurytoma rosae**
 forests, China 7937
 hosts, *Dryocosmus kuriphilus* 7937
- Eurytoma serratulae**
Cirsium arvense, habitats, German Federal Republic 2566
 ecology, dispersal 2566
 hosts, *Urophora cardui* 2566
- Eurytoma tibialis**
 hosts, Tephritidae 2692
 India 2692

- Eurytomidae**
Ivory Coast 2486
parasitoids 2486
taxonomy, keys 3514
- Eurytomocharis karalensis**
hosts, *Melanagromyza hibisci* 6862
okras, fields, India 6862
- Euscelidius variegatus**
plant pathogens, transmission 7717,
7763, 7791, 10680
Vicia faba 7791
- Euscelis incisa**
ecology, population dynamics 9545
grasslands, UK 9545
- Euscelis lineolatus**, plant pathogens, trans-
mission 7763
- Eusepes postfasciatus**
biology 9837
sweet potatoes, Japan 9837
- Euschistus heros**
soyabeans
Brazil 655
Paraguay 3880
- Euschistus servus**
biology, behaviour 8475
maize, Kentucky 5625, 8475
- Euschistus variolarius**
biology, behaviour 8475
maize, Kentucky 5625, 8475
- Euseius beninensis**
food plants, Benin 2876
taxonomy, new species 2876
- Euseius finlandicus**
apples
orchards
Austria 3796
Ontario 8586
biology 2512
environmental factors 3554, 8569
food preferences 8344
ecology, population dynamics 8586
orchards, USSR 11643
pesticides, effects 3796, 9665
prey
Acari 8344, 8586
Eotetranychus pruni 2512, 3554
Tetranychidae 11643
vineyards
Hungary 8569
Italy 9665
USSR 2512
- Euseius gossipi**
chemosterilants, effects 5495
Citrus, orchards, Egypt 572
prey, *Citrus*, arthropod pests 572
- Euseius hibisci**
biology 11452
food 11452
prey, Tetranychidae 11452
- Euseius mesembrinus**
biology 9436
Malephora croceus, pollen 9436
prey, Tetranychidae 9436
- Euseius minutisetus**
Acacia, Kenya 1833
taxonomy, new species 1833
- Euseius stipulatus**
biology 11452
food 11452
prey, Tetranychidae 11452
- Euseius tularensis**
biology 11452
food 11452
prey, Tetranychidae 11452
- Euselasiinae**
morphology, legs 1049
phylogeny 1049
- Eustenopus hirtus**
control, *Centaurea solstitialis*, evalua-
tion 1379
food plants 1379
- Eutectona machaeralis**
biology 5920
phenology 1798
Tectona grandis, India 1798, 5920
- Eutetranychus banksi**
oranges, Florida 9720
pesticides, effects 9720
predators 9436
- Eutetranychus orientalis**
Egypt 324
- Eutetranychus orientalis cont.**
predators 224, 573
Ricinus communis 573
- Euthycera**
distribution, Spain 4404
prey, *Deroceras reticulatum* 278
taxonomy 4404
- Euthycera cribrata**
biology 278
prey, *Deroceras reticulatum* 278
- Euthyrhynchites**
prey, *Datana integerrima* 2717
walnuts, orchards, Mexico 2717
- Eutorna phaulocosma**
biology 4715
control, insecticides 4715
natural enemies 4715
small fruits, New Zealand 4715
- Euura, Salix lasiolepis**, Arizona 4982
- Euura exiguae, Salix exigua**, Utah 5033
- Euura lasiolepis**
Arizona 4980
biology, environmental factors 4013
ecology 4982
population dynamics 4980
parasitoids 4980
Salix lasiolepis
Arizona 4013, 4982, 5918
galls 4013, 4980
- Euura mucronata**
biology 4046, 5038
Finland 5038
Salix cinerea
Finland 4046
galls 5038
- Euurobracon**
morphology 8204
taxonomy 8204
- Euurobraconini**, taxonomy, synonyms,
Pseudodicrogenini 268
- Euvarroa**, taxonomy, synonyms, of *Varroa*
5439
- Euvarroa sinhai**
hosts, *Apis florea* 1251
India 1251
morphology 5439
- Euwallacea fornicatus**
control, insecticides 9903
tea
India 9903
Sri Lanka 3955, 7888
- Euxoa conspicua** (see *Agrotis crassa*)
- Euxoa messoria**
control, insecticides 10874
growth regulators, toxicity 5896
pathogens 7149
tobacco 5896
Ontario 10874
- Euxoa ochrogaster**
ecology, population dynamics 9886
flax, Manitoba 9886
- Euxoa scandens**, pathogens 7149
- Euxoa spinifera** (see *Agrotis biconica*)
- Euzophora bigella**
distribution, Switzerland 142
fruit trees, USSR 3779
morphology 3779
taxonomy 3779
- Evergestis forficatis**, excreta, oviposition
deterrents 8675
- Evergreen oak** (see *Quercus ilex*)
- Evisect** (see *Thiocyclam*)
- Evolution**, insects, life cycle, books 2095
- Evolvulus alsinoides, Agrotis ipsilon**, India
9828
- Exelastis atomosa**
biology, phenology 7806
Cajanus cajan, India 5825, 7806
control, insecticides 5825, 7806
parasitoids 3568, 5479
- Exeristes roborator**
biology, behaviour 6550, 7531
hosts, *Galleria mellonella* 6550, 7531
- Exetastes atrator**
biology, environmental factors 3569
hosts, *Mamestra brassicae* 3558, 3569-
3570
- Exetastes cinctipes** (see *E. atrator*)
- Exitianus**, groundnuts, Zambia 6910
- Exitianus obscurinervis**
host plants, Argentina 6764
- Exitianus obscurinervis cont.**
monitoring, traps 6764, 6890
soyabeans, Argentina 6890
- Exitianus taeniaticeps**, predators 667
- Exochomus flaviventris**
biology, development 4891
cassava, fields, Congo 5852
control, *Phenacoccus manihoti* 5852
prey, *Phenacoccus manihoti* 4891
- Exochomus muelleri**
biology, phenology 1589
olives, orchards, Cyprus 1589
prey, *Saissetia oleae* 1589
- Exochomus nigripennis**
Libya 1545
prey, dates, insect pests 1545
- Exochomus quadripustulatus**, prey, *Saisse-
tia coffeae* 3805
- Exolontha serrulata**
control, insecticides 6696
sugarcane, China 6696
- Exoporia**, taxonomy 4259
- Exorista**
hosts
Antheraea mylitta 10958
Rivula 8713
soyabeans, fields, India 8713
- Exorista bombycis** (see *E. sorbillans*)
- Exorista civiloides**
hosts, *Amsacta albistriga* 2846
insecticides, effects 2846
- Exorista larvarum**
forests, Hungary 8851
hosts, *Dendrolimus pini* 8851
- Exorista sorbillans**
biology, behaviour 6562
hosts
Antheraea assamensis 4557
Bombyx mori 6532, 6543, 6558,
6562, 10492
India 4557, 6532, 10492
parasitoids 6532, 6543, 6558
- Exoristobia philippinensis**
hosts, *Exorista sorbillans* 6558
rearing techniques 6558
- Exothecidii**
distribution, Taiwan 7519
taxonomy 7519
- Exothorhis**, prey, tea, mites 5902
- Exothorhis caudata**, tea, plantations, India
5902
- Expert systems**
beneficial arthropods, pesticides, effects
3538
integrated pest management 7949
lucerne, arthropods, identification 7698
pest control 6100
reviews 5141
- Extatosoma tiaratum**
physiology
muscles 9218
nervous system 9224, 9229
- Eyprepocnemis plorans**
genetics, B chromosomes 5345
Italy 190
plant extracts, antifeedants 190
Spain 5345
Vicia faba 190
- Eysarcoris parvus**, distribution, Korea
Republic 1188
- Eysarcoris ventralis**, distribution, India
1478
- Faba beans** (see *Vicia faba*)
- Fabrics**, pest control, India 11873
- Fabriciis australis**
gourds, India 1632
morphology 1632
- Factories, Drosophila**, Hungary 865
- Faeces**, Scarabaeoidea 8316
- Fagaceae**, Gracillariidae, New England
4024
- Fagara ailanthoides**, extracts, attractants,
Papilio protenor 7750
- Fagopyrum esculentum** (see *Buckwheat*)
- Fagus**
Cryptococcus fagisuga 4984
Ontario 4022
forests
Carabidae, Belgium 8876
Heteroptera, Czechoslovakia 10996

- Fagus crenata**, wood, *Scolytoplatus* *shogun*, Japan 3072
- Fagus grandifolia**
arthropods, Ohio 811
Cryptococcus fagisuga, Ontario 5927
- Fagus japonica**, *Phyllaphis fagi*, damage 7907
- Fagus orientalis**, *Taphrocoetes hirtellus* 2947
- Fagus sylvatica**
Calliteara pudibunda, outbreaks 8821
Cryptococcus fagisuga, German Federal Republic 1847
hedges, *Tachydromia annulipes*, UK 9989
Lepidoptera, Spain 8832
Phytomyza ranunculi, UK 9989
Taphrocoetes hirtellus 2947
wood, *Xylosandrus germanus*, damage 1909
- Fahringeria**, taxonomy, synonyms, of *Fidibia* 5491
- Falciconus pseudoplatani**
biology, behaviour 269
hosts, *Drepanosiphum platanoidis* 269
models 269
- Falco sparverius**, insecticides, effects 11999
- Fallopia convolvulus**
habitats, *Centrodora scolypopae*, New Zealand 8559
Scolypopa australis, New Zealand 8559
- Farinocystis tribolii**, hosts, *Tribolium castaneum* 883, 4059
- Farming systems**, effects, wheat, insect pests 2617
- Farmyard manure**, effects, *Spodoptera frugiperda* 8480
- Farnesyl methyl ether**, effects, *Dysdercus cingulatus* 2170
- Fasciola gigantica miracidia**, insecticides, effects 2035
- Fastac** (see Alpha-cypermethrin)
- Fats**, insecticides, residues 11142
- Fatty acids**, effects, *Bactrocera cucurbitae* 2237
- Faustinus rhombifer**
control, insecticides 5861
tomatoes, Panama 5861
- Feeds**
Rhyzopertha dominica, tropics 852
Sarasinula plebeia 312
- Fenamiphos** (ethyl 3-methyl-4-(methylthio)phenyl (1-methylethyl)phosphoramidate)
compatibility, fertilizers 11181
control
Cosmopolites sordidus 3823
Scarabaeidae 10788
Viteus vitifoliae 10682
determination 3154
effects, Noctuidae 10802
formulations, emulsifiable concentrates 11181
nontarget effects
Braconidae 10802
Jalysus wickhami 4946
residues, water 3154
toxicity, *Heterorhabditis bacteriophora* 8981
- Fenbutatin oxide** (hexakis(2-methyl-2-phenylpropyl)distannoxane)
control
Aculus schlechtendali 8614
Dolichotetranychus floridanus 8657
Phyllocoptruta oleivora 6839
Phytonemus pallidus 11781
- (+)-Fenchone**, effects, *Deroceas reticulatum* 305
- Fenfuram**, effects, *Microtermes* 5511
- Fenitrothion** (*O,O*-dimethyl *O*-(3-methyl-4-nitrophenyl) phosphorothioate)
analysis 932
control
Amrasca biguttula 8669
Amsacta albistriga 2846
aubergines, insect pests 11758
Bothynoderes punctiventris 6912
Choristoneura fumiferana 7914
Contarinia 4977
Contarinia medicaginis 2688
- Fenitrothion cont.**
control cont.
Cydia molesta 5729
Diploschema rotundicollis 4776
Drosicha mangiferae 5764
greenhouse crops, insect pests 5162
Hishimonus sellatus 10739
Lambdina fuscicollis 7915
Leptocoris oratorius 11574
Physokermes jezoensis 5936
Quadrastipidius perniciosus 9681
Resseliella theobaldi 3762
Rhopalosiphum maidis 3664
Rhynchaenus mangiferae 584
Rhyzopertha dominica 11032
Sitobion avenae 5183
Sitodiplosis mosellana 9536
Thysanoptera 3784
Urentius hystricellus 10865
Wiseana 6755
- degradation 933
determination 10146
drift, effects, determination 9051
effects
birds 9098
Callosobruchus chinensis 6164
Coptotermes formosanus 6595
fishes 2024
parasitoids 2846
small mammals 817
stored products pests 3062
formulations
adjuvants 10905
microencapsulation 10108
sprays 11152
metabolism, *Chilo suppressalis* 10112
mixtures
control, *Scirpophaga incertulas* 5646
toxicity
Lepidoptera 10855
Spilosoma obliqua 1953
- nontarget effects
Apis mellifera 7540
birds 10139
Cicer arietinum 1672
Cotesia glomerata 8684
fishes 2030, 7212
fowls 8190
man 4195
predatory arthropods 6526
rabbits 4186
Rheum palma 3639
soil fauna 1957
persistence, *Abies balsamea* 10905
residues
Abies balsamea 8893
cereal grains 7105
food 1023
forests 7920
lucerne 6762
potatoes, commodities 4051
processing, effects 11755
rice 11574
tomatoes 11755
- resistance
Chilo suppressalis 10111
insects 10121
Rhizoglyphus robini 11748
Sogatella furcifera 7652
Spodoptera littoralis 1064, 2011
sorption, soil 2004
toxicity
Achaea janata 1721
Anomis sabulifera 7190
Auricularia auricula, insect pests 11688
Callosobruchus maculatus 1672
Coptotermes formosanus 10108
Epilachna ocellata 2872
fishes 8123
Lepidoptera 10855
Leptocoris acuta 11178
Lipaphis erysimi 5179
Mythimna separata 5668
Pieris brassicae 9051
Poephila guttata 8131
Scirpophaga incertulas 432
Sitophilus oryzae 5093
stored products pests 5092
Tribolium castaneum 5091, 7182
- Fenitrothion cont.**
toxicity cont.
wheat, commodities 11026
Zeiraphera canadensis 8853
with lindane, toxicity, fishes 6174
- Fenitroxon** (see Dimethyl 3-methyl-4-nitrophenyl phosphate)
- Fennel** (*Foeniculum vulgare*)
commodities, *Systole albipennis* 870, 11898
damage 4876
Helicoverpa armigera, India 348
insecticides, residues 1407
Papilio zelicaon, California 3358
- Fenobucarb** (2-(1-methylpropyl)phenyl methylcarbamate)
control
Amrasca biguttula 601, 2793
Coccoidea 5766
Laodelphax striatella 1474
Nephotettix virescens 9584
Phyllocnistis citrella 7756
potatoes, insect pests 5848
Pyrilla perpusilla 11553
effects, *Thrips palmi* 9728
herbicides, compatibility 1462
residues
mangoes 5766
rice, commodities 10036
rivers 6202-6203
resistance, *Sogatella furcifera* 7652
sorption, soil 2004
toxicity
Cyrtorhinus lividipennis 11464
fishes 6174
Mythimna separata 5668
with diazinon, control, *Chaetocnema* 7910
- Fenoxycarb** (ethyl [2-(4-phenoxyphenoxy)ethyl]carbamate)
control
Adoxophyes orana 3751, 5723, 10712
Batrachedra amydraula 1544
Noctuidae 6981
Phyllonorycter pomonella 6823
Reticulitermes 11491
effects
Cacopsylla pyricola 9104
Choristoneura fumiferana 7234
Ips paraconfusus 7061
Solenopsis invicta 6514
Tortricidae 3777
nontarget effects, *Apis mellifera* 3751
toxicity
Apis mellifera 5723
Tortricidae 8613
Tribolium castaneum 7975
- Fenpropanate** (see Fenpropathrin)
- Fenpropathrin** (cyano(3-phenoxyphenyl)methyl 2,2,3,3-tetramethylcyclopropanecarboxylate)
control
Acari 8771
Atherigona 414
Brevipalpus phoenicis 3817
Cecidomyia 8901
Cornitermes cumulans 3464
Lepidoptera 7876
Myzus persicae 10851
Oligonychus afraasiaticus 500
Oligonychus indicus 2664
Pectinophora gossypiella 1730
Phyllonorycter pomonella 6823
Polyphagotarsonemus latus 6957
Trialeurodes vaporariorum 1710
Tyrophagus similis 9746
effects
cotton 11775
Saintpaulia ionantha 9908
formulations 10849
metabolism, rodents 8102
mixtures
control
Oligonychus afraasiaticus 500
Orthezia praelonga 4954
stability 931
nontarget effects
predatory mites 9746
Thripidae 8771
residues, sorghum 11584

Fenpropathrin *cont.*

resistance, *Cacopsylla pyricola* 8624
stability 931
toxicity

Brevicoryne brassicae 4181
Lepidoptera 6481
Polychrosis viteana 8564
Sitophilus oryzae 5087, 11881
Trichogramma brasiliense 11451

Fenson (4-chlorophenyl benzenesulfonate)

control, apples, arthropod pests 11649
residues, honey 962

Fensulfothion (*O,O*-diethyl *O*-[4-(methylsulfinyl)phenyl] phosphorothioate)

control
Cosmopolites sordidus 583, 4796
Costelytra zealandica 6756, 11598
Heteronychus arator 470
Holotrichia serrata 359
sugarcane, insect pests 4611
effects, *Costelytra zealandica* 11597
residues, soil 11598

Fenthion (*O,O*-dimethyl *O*-[3-methyl-4-(methylthio)phenyl] phosphorothioate)

control
Amrasca biguttula 9756
Amsacta moorei 11718
Annona muricata, insect pests 1596
Bothynoderes punctiventris 6912
Brevinnia rehi 2651
Carpomyia vesuviana 8637
Cornitermes cumulans 3464
Drosicha mangiferae 5764
Idioscopus 6851
Leptocoris oratorius 11574
Myllocerus nigrosuturalis 4766
onions, insect pests 8750
Orseolia oryzae 10610

effects
Callosobruchus chinensis 6164
Phytoseiulus persimilis 8630
mixtures, control, *Coccus viridis* 9898
nontarget effects
birds 3194
fowls 8190
Platyaster oryzae 10610
rabbits 4186

residues
mangoes 585
rice 11574

resistance, *Sogatella furcifera* 7652

toxicity
Chrysoperla externa 8336
Epilachna vigintioctopunctata 5846
fishes 6174, 8123
Leptocoris acuta 11178
Mythimna separata 5668
vertebrates 11211

Fentin acetate (acetyloxy)triphenylstannane)

toxicity, *Heterorhabditis bacteriophora* 8981

Fenugreek (*Trigonella foenum-graecum*)

extracts
toxicity
stored products pests 4066
Tyrophagus putrescentiae 4067
Helicoverpa armigera, India 348
insecticides, effects 4200
Spilosoma obliqua, India 1647

Fenusini

parasitoids 3571
taxonomy 3571

Fenvalerate (cyano(3-phenoxyphenyl)

methyl 4-chloro- α -(1-methylethyl)
benzeneacetate)
analogues
synthesis 978
toxicity, beneficial insects 3497
bioassays 3203
control

Amrasca biguttula 9756
Anthonomus grandis 6982
Anthonomus rubi 8557, 10672
Antigastra catalaunalis 6951
Aphididae 1432, 8468, 10581
apples
arthropod pests 2738, 8612
insect pests 4746
Atherigona 414

Fenvalerate *cont.*

control *cont.*

Bagrada hilaris 5795
Cajanus cajan, insect pests 5825, 7806
Cavelerius sweeti 4606, 4610
Chilo partellus 3721
Cicadellidae 5865
cotton

insect pests 742, 2923, 3933-3934

Lepidoptera 9877, 11773
Dasineura swaini 1884
Diploschema rotundicollis 4776
Euwallacea fornicatus 9903
Faustinus rhombifer 5861
Helicoverpa 10845
Helicoverpa armigera 348, 5832, 7669, 7810, 8726-8727

Hemiptera 9885
Hieroglyphus banian 3713
Hishimonus sellatus 11657
Hyphantria cunea 485
insect pests 7877
Lepidoptera 747, 1649, 3937, 10857
Leptinotarsa decemlineata 4883
Leucoptera malifoliella 3749
Lipaphis erysimi 6874
Listronotus texanus 2861
Lygus 2680

Malacosoma neustria 5165
Melanagromyza obtusa 5830
Myzus persicae 10851
Neoleucinodes elegantalis 8757
Noctuidae 2662
Parlatoria zizyphi 7749
Phorodon humuli 350
Phyllocnistis citrella 1575, 7752
Platynota idaeusalis 8585
Plutella xylostella 3852, 9765
rape, insect pests 6865
raspberries, Coleoptera 506
Rhyzopertha dominica 11032
Rivula 6899

Scirpophaga incertulas 3688
Sitodiplosis mosellana 9536
soybeans, insect pests 6898
Spodoptera exigua 2635
Spodoptera litura 8788
Syllepte derogata 755, 6962
Tetranychus cinnabarinus 11693
tomatoes, insect pests 1714, 4904

degradation

Phaseolus vulgaris 629
sea water 3198

determination 978

drift, effects, determination 9051

effects

bacteria 11214
carp 8121
cell cultures 976
cotton 10856, 10858
Earias vittella 9065
Episyrrhus balteatus 2480
fishes 10107
fungi 11203
groundnuts 7809
Nilaparvata lugens 422
plant pathogens 9607
Plutella xylostella 6161
sorghum 2668
Tetranychus urticae 4184
zooplankton 6172

extraction, water 2057

metabolism, rodents 8102

mixtures

control
cotton, Lepidoptera 7853
Lepidoptera 10857
effects, *Glabromicroplitis croceipes* 4916

resistance, *Plutella xylostella* 7779

stability 931

toxicity

Agrotis ipsilon 8041
Aphis gossypii 7761
Heliothis virescens 2921
Lepidoptera 10855

mutagenicity, *Salmonella typhimurium* 977

Fenvalerate *cont.*

nontarget effects

Aphididae, predators 1432
Carabidae 696
groundnuts 7808
man 4195
mice 2032
Panonychus ulmi 8585
Trichogramma 8762
Typhlodromus pyri 2738

penetration, *Heliothis virescens* 2930

residues

aubergines 5865
cotton 2912
limes 10731
soybeans 11727
stored products 10184

resistance

Cacopsylla pyricola 1565, 8623-8624
Helicoverpa armigera 11164
Heliothis virescens 2914-2915, 2921
Leptinotarsa decemlineata 10827
Plutella xylostella 2809, 8670, 10106, 11169, 11694
Spodoptera exigua 11977
Spodoptera littoralis 3935

stability 931

synergism 2921, 3155, 5179, 7839, 8670, 10106, 11169

toxicity

Achaea janata 1721
Aphidius gifuensis 7509
Auricularia auricula, insect pests 11688

beneficial insects 3497
Callosobruchus 947-948
Callosobruchus maculatus 3065
Chelonus blackburni 1280
Clavigralla gibbosa 9810
Coccinella septempunctata 2476
Coryca cephalonica 3165
Cyrtorhinus lividipennis 11464
Dysdercus 9871
Epilachna vigintioctopunctata 11971

fishes 10131

goats 9885

Helicoverpa armigera 11987

Helicoverpa zea 2914

Hymenoptera 8362

Lepidoptera 3159, 10107, 10855

Leptinotarsa decemlineata 7839

Lipaphis erysimi 3172, 5179, 11986

Macrocentrus linearis 7511

Mylabris phalerata 10808

Myzus 6920

parasitoids 6529

Pentalonia nigronervosa 8656

Pieris brassicae 9051

Platynota idaeusalis 6813

Plutella xylostella 5185

Rhyzopertha dominica 5091, 5093

Scirpophaga incertulas 6740

Sitophilus oryzae 5087, 11881

Spodoptera littoralis 3155

stored products pests 5092

Thysanoplusia orichalcea 736

Tribolium castaneum 4059

Trichogramma 5453

Trichogramma brasiliense 11451

Fergusonia jambophila, hosts, *Fergusonina* syzygii 5759

Fergusonina syzygii

India 5759

pathogens 5759

Syzygium cumini, galls 5759

Ferric acetylacetate, control, *Deroceras reticulatum* 8405

Ferrisia virgata

control 9508

guavas, India 6849

Manilkara hexandra, India 1883

ornamental plants, Egypt 776

parasitoids 6849

Piper nigrum, India 9508

Fertilizers (see also individual types of fertilizers)

control

Isoptera 2613

Vigna radiata, insect pests 2831

Fertilizers cont.
effects

Atherigona soccata 1495
Bemisia tabaci 1648
Eldana saccharina 5590
insects 7247
Ips calligraphus 10044
Lepidoptera 8479
Lipaphis erysimi 11699
Listronotus bonariensis 469
Nilaparvata lugens 11570
oranges, arthropod pests 8649
Ostrinia nubilalis 4642
Pectinophora gossypiella 6973
Pieris rapae 9771
rice, insect pests 2653, 7648
Schizaphis graminum 1506
Sogatella furcifera 2656
soil arthropods 3813
Spodoptera eridania 8536
Tetranychus urticae 11714
Tipulidae 8537
Tyria jacobaeae 3624
grasslands, indicator species 5681
insecticides, compatibility 11181
mixtures, toxicity, *Spilosoma obliqua* 1953

Ferulic acid
antifeedants, *Carpophilus hemipterus* 8498
effects
insects 4151
Sitophilus zeamais 7983

Fervin, effects, *Diaeretiella rapae* 1618
Festuca arundinacea
Aphididae, Washington 10635
Listronotus bonariensis, New Zealand 1518
Oscinella frit, German Democratic Republic 3652
seeds, *Tribolium castaneum*, resistance 7672

Festuca pratensis, *Rhopalosiphum padi* 5680

Ficam (see Bendiocarb)
Ficedula hypoleuca, prey, bilberries, insect pests 7714

Ficus
Agaon, pollination 10718
Agaonidae, pollination 5743
extracts, attractants, *Ceratitis capitata* 3211
seeds, *Camponotus femoratus*, Peru 10402

Ficus benghalensis, extracts, attractants, *Ceratitis capitata* 564

Ficus benjamina, extracts, attractants, *Ceratitis capitata* 564

Ficus burtt-davyi, *Elisabethiella baijnathi*, pollination 11656

Ficus capreaefolia, *Neserella capreifoliae*, South Africa 10011

Ficus carica (see Figs)

Ficus elastica
habitats, Hymenoptera, India 10897
Trilocha varians, India 10897

Ficus hispida
Ceratostenes marchali, Pakistan 2754
Hymenoptera, Malaysia 8638
Lygaeidae, India 7741

Ficus infectoria, Lygaeidae, India 7741

Ficus ingens, Hymenoptera 9931

Ficus johannis, *Aphis kachkoului*, Iran 10663

Ficus microcarpa
Gynaikothrips ficorum, Israel 1182
Odontofroggata galili, Greece 9699

Ficus religiosa
Dialeurolonga maculata, Madagascar 10717
Lygaeidae, India 7741

Ficus retusa, extracts, attractants, *Ceratitidis capitata* 564

Fidicina mannifera
biology 8793
Brazil 8793
morphology 8793

Fidicina pronoe
biology 8793
coffee, Brazil 8793
morphology 8793

Fidiobia, taxonomy, synonyms, *Fahringeria* 5491
Fidiobia asina, taxonomy, from *Platystasius* 5491
Fidiobia benjamini, taxonomy, from *Platystasius* 5491
Fidiobia citri, taxonomy, from *Platystasius* 5491
Field beans (see *Vicia faba*)
Field crops
Acrididae, Sahel 7300
Aleyrodidae, conferences 997
arthropod pests
Africa, books 1011
control, pesticides 11115-11116
Romania 4570
habitats, beneficial arthropods, German Federal Republic 7260
insect pests
Italy 10220
monitoring 4238
pest control
Europe 6130
German Federal Republic 4159, 8070
books 7260
Israel 4806-4807, 11682
natural resources 3217
reviews 590-591
pest resistance, USSR, books 12024
pests, conferences 6242
Tetranychidae, USSR 2375

Fields
beneficial arthropods, German Federal Republic 6585
habitats, Carabidae, Minnesota 8361
predatory arthropods, Netherlands 6526

Fig wasps (see also Agaonidae)
Figs (*Ficus carica*)

Aphis kachkoului, Iran 10663
arthropod pests, Iran 566
commodities
Carpoglyphus lactis, damage 11050
insects 6045
extracts, attractants, *Ceratitis capitata* 3211
Homotoma viridis, Italy 9700
Hymenoptera
Malaysia 565
pollination 7740
Icerya seychellarum, Seychelles 1570
insect pests 1572
Nipaeococcus filamentosus, Iran 3804
pest control, California 6045
Saissetia coffeae, Italy 3805
Silba adipata 4772

Figwort mosaic caulimovirus, vectors, *Myzus persicae* 1703

Fiji
Arpactophilus 11
Cicadoidea 10239

Filipjevimermis leipsandra, hosts, *Diabrotica balteata* 11071

Filippia gemina, parasitoids 209

Filitox (see Methamidophos)

Finger millet (see *Eleusine coracana*)

Finland
Adalia bipunctata 3544
Aenigmaphycus paluster 4539
Aphididae, pathogens 5122
Aradus cinnamomeus 1784, 7905, 10246, 10975
Betula, insect pests 5916
biological control
conferences 4244
greenhouses 6123
Carabidae 3542-3543, 4015, 8913
Cerambycidae 11264
cereals, insect pests 9535
Cinara 5054
Collembola, specimens 3240
crops, pests 9486
Delia, predators 5793
Diprionidae 5977
Eriophyes laevis 8856
Euura mucronata 4046, 5038
field crops, insect pests 1440
forests
arthropods 4026
invertebrates 1786

Finland cont.
Formica 7077, 8330
Formica rufa group 7484
Formica truncorum 9389
Formicidae 5054, 7481, 8327, 11856
Frankliniella occidentalis 6123
Geometridae 7033
greenhouse crops, arthropod pests 6170
Histeridae, specimens 3243
insecticides, testing 8071
Meligethes aeneus, parasitoids 5786
Nabidae, specimens 3241
Pegomya 9752
Petrova resinella 5922
parasitoids 5923
Pinus sylvestris
Lepidoptera 9958
pollutants 5056
Psila rosae 4877
Rhopalosiphum padi 5594
predators 10577
soil, insects, pathogens 6099
Sphingidae 1835
Staphylinidae, specimens 3242
Strobilomyia, parasitoids 5053
sugarbeet, insecticides, effects 9824
Symphyta 10969
Symydobius oblongus 7077
Thrips tabaci, predators 5798
Trollius, pollinators 6665
Vespa crabro 6541
wheat, insect pests 9536

Fiorinia citri
oranges, China 3238
taxonomy, new species 3238

Fiorinia cunninghamiana
Cunninghamia lanceolata, China 3238
taxonomy, new species 3238

Fiorinia euonymi
Euonymus japonica, China 3238
taxonomy, new species 3238

Fiorinia externa
Abies koreana 11864
distribution, UK 11864

Fiorinia myricae
Myrica rubra, China 3238
taxonomy, new species 3238

Fiorinia theae
parasitoids 3498, 3952
tea, India 3952

Fir (see *Abies*)

Fire
effects
insects 7670
invertebrates 5382
Isoptera 2522

Fires, alarms, *Limothrips cerealium*, effects 6522

Firminia simplex, *Thysanogyna limbata*, China 5028

Fish oils
effects, *Dermestes maculatus* 6017
insecticides, residues 8118

Fishes
commodities
arthropod pests 4049
insecticides, residues 8118
control, rice, insect pests 7703
insecticides

effects 2016, 2039, 4247, 5199, 5206, 6173, 6183, 6193-6194, 6196, 7174, 7194, 7212, 7303, 8083, 9072, 10107, 10127, 11189, 11192, 11201
residues 937, 967, 1480, 3190, 6137, 7193, 7200, 7205, 7920, 8092, 8133, 10124, 11219, 12002
toxicity 966, 6174, 8104, 8123, 10131
pesticides, residues 985, 8129, 10132, 11993
prey
Anabrus simplex 7500
Lepidoptera 11002

Flacourtia, *Lonchophorellus callosus* 8653

Flata, *Manilkara hexandra*, India 1883

Flaveria bidentis, insects, Argentina 7555

Flavobacterium
genetics, genetic engineering 11183
insecticides, degradation 2005, 11183

- Flavonoids**, effects, *Anthonomus grandis* 8772
- Flax** (*Linum usitatissimum*)
Euxoa ochrogaster, yield losses 9886
Helicoverpa armigera 4811
intercropping
Cicer arietinum, pest control 669, 5833
peas, pest control 643
seeds, *Tyrophagus putrescentiae* 7121
- Flea beetles** (see Chrysomelidae)
- Flemingia macrophylla**, *Kerria lacca* 9932
- Flindersia xanthoxyla**, *Anilura*, Australia 4007
- Flood debris**, Aphidiinae, German Federal Republic 1281
- Flourensia cernua**, *Ligurotettix planum*, New Mexico 5008
- Flours**
insecticides, residues 7105
Tribolium confusum 4060
Tyrophagus putrescentiae 4067
- Flowers**, pest control, reviews 779
- Fluazifop-butyl**, nontarget effects, *Pterostichus* 9444
- Flubenzimine** (*N*-[3-phenyl-4,5-bis[(trifluoromethyl)imino]-2-thiazolidinylidene]benzenamine)
control
Aculops lycopersici 6942
Brevipalpus phoenicis 3817
nontarget effects, soil arthropods 1731
toxicity, *Heterorhabditis bacteriophora* 8981
- Flucythrinate** (cyano(3-phenoxyphenyl)methyl (S)-4-(difluoromethoxy)- α -(1-methylethyl)benzeneacetate)
control
Amrasca biguttula 9756
Cacopsylla pyri 2747, 8621
cotton, insect pests 2924, 3933, 10863
Helicoverpa armigera 8727
Lepidoptera 3937, 7876
Myzus persicae 10851
Neoleucinodes elegantalis 8756
Platynota idaeusalis 8585
Spodoptera exigua 2635
Syllepte derogata 6962
- effects
cell cultures 976
cotton 11775
fungi 11203
soil, microorganisms 2041
- nontarget effects
aquatic organisms 2039
Panonychus ulmi 8585
- resistance, *Cacopsylla pyricola* 8624
- synergism 3155
- toxicity
Clavirgalla gibbosa 9810
Pentalonia nigronervosa 8656
Sitophilus oryzae 11881
Spodoptera littoralis 3155
Trichogramma brasiliense 11451
- Flufenoxuron** (*N*-[[[4-[2-chloro-4-(trifluoromethyl)phenoxy]-2-fluorophenyl]amino]carbonyl]-2,6-difluorobenzamide)
control, *Phyllonorycter pomonella* 6823
- effects
Spodoptera littoralis 8151-8152
Thrips palmi 9728
- metabolism, *Spodoptera littoralis* 8150
- mode of action 8151
- residues, *Pinus* 10987
- toxicity
Lepidoptera 10987
Tortricidae 5717
- Fluoroaliphatic sulfones**, toxicity, *Solenopsis invicta* 4449
- 4-(Fluoromethyl)tetrahydro-4-hydroxy-2H-pyran-2-one**, effects, *Spodoptera mauritia* 3209
- Fluoromevalonate** (see 4-(Fluoromethyl)tetrahydro-4-hydroxy-2H-pyran-2-one)
- 5-(4-Fluoro-3-phenoxybenzyl)-2-(4-ethoxyphenyl)-2-methylpentane**
effects, fishes 8083
toxicity, insects 8083
- 5-Fluoro-1-(tetrahydro-2-furyl)-uracil**, effects, *Ceratitis capitata* 12009
- 5-Fluorotic acid**, effects, *Euseius gossipi* 5495
- 5-Fluorouracil**
effects, *Euseius gossipi* 5495
chemosterilants, mites 8939
- Fluvalinate** (*N*-[2-chloro-4-(trifluoromethyl)phenyl]-DL-valine cyano(3-phenoxyphenyl)methyl ester)
application, controlled release 6528
control
Anthonomus rubi 8557, 10672
apples, arthropod pests 8612
Cajanus cajan, insect pests 7806
cotton, insect pests 2923
Dolichotetranychus floridanus 8657
Euxoa messoria 10874
Lepidoptera 7876
Myzus persicae 10851
Tetranychus urticae 4716, 6995
Tropilaelaps clareae 6576
Varroa 6528
Varroa jacobsoni 1249, 3536, 6524
- effects
Apis mellifera 6523
cotton 11775
nontarget effects, man 959, 3184
residues, raspberries 4716
- resistance
Heliothis virescens 2915
Scirtothrips citri 5750, 8643, 11163, 11974
- toxicity
Apis mellifera 1249
Chelonus blackburni 1280
Clavirgalla gibbosa 9810
Cyrtorhinus lividipennis 11464
Mylabris phalerata 10808
Pentalonia nigronervosa 8656
Scolytus multistriatus 5051
Varroa jacobsoni 10474
- Tau-fluvalinate**, residues, honey 7968
- FMC 35001** (see Carbosulfan)
- Fodder beet** (*Beta vulgaris*)
Atomaria linearis, damage 682
Pegomya hyoscyami, varietal susceptibility 4875
- Fodder crops**
arthropod pests, Romania 4570
insect pests, Italy 2556
pest control, Romania 4571
Phyllobius artemisiae 8527
- Fodder plants**, arthropod pests 11255
- Foeniculum vulgare** (see Fennel)
- Fog**, insecticides, residues 10149
- Folbex-VA** (see Bromopropylate)
- Folidol** (see Parathion)
- Folidol-M** (see Parathion-methyl)
- Folimat** (see Omethoate)
- Folithion** (see Fenitrothion)
- Folsomia candida**
biology 5354
behaviour 7014
food 5354
insecticides, toxicity 12006
pesticides, toxicity 11212
predators 2465
Quercus ilex 7014
- Folsomides angularis**
biology, environmental factors 6438
physiology, water relations 9272
- Fomesafen**, toxicity, *Clavirgalla gibbosa* 9810
- Fonofos** (*O*-ethyl *S*-phenyl ethylphosphonodithioate)
contamination, clothing 8132
control
Coleoptera 1698
Cosmopolites sordidus 3823
Delia antiqua 6939
Elateridae 7826
groundnuts, diseases 10809
Oscinella frit 6718
Spodoptera frugiperda 8497
- degradation, soil 7225
- detection 5203, 7826
- effects, *Diabrotica virgifera* 4650
- residues, groundwater 6204
- toxicity, *Heterorhabditis bacteriophora* 8981
- Food crops**, pyrethroid insecticides, residues, decontamination 4207
- Foods**
Coleoptera, USA 11019
insect pests, identification, books 4232
insecticides
effects 7218, 8056
residues 5200, 7303, 8117-8118, 8924, 11219
assessment, books 10176
- pesticides
residues 7082, 7208, 7216, 11014-11015
reports 1023, 7301, 10224-10225
- Ptinus tectus* 10021
- Forcipomyia**
Brazil 4948
cocoa, pollination 4948
predators 4948
- Forcipomyia dolichopodida**
Pistia stratiotes, Florida 6657
taxonomy, new species 6657
- Forecasting**
Anthonomus grandis, cotton 6975
Apamea anceps, wheat 2619
- Aphididae
potatoes 1695
wheat 10559
- Aphis gossypii*, cotton 1727
- arthropod pests 917
- USSR 2385
- Bactrocera oleae*, olives 11668
- Choristoneura occidentalis*, damage 7926
- Chortoicetes terminifera*, Australia 7473
- Chromatomyia horticola* 1982
- Cnaphalocrocis medinalis*, rice 10614
- Coleoptera, wheat, commodities 10035
- Costelytra zealandica*, pastures 471
- Diabrotica virgifera virgifera*, maize 10588
- Diatraea grandiosella*, maize 9570
- Diuraphis noxia*, wheat, Australia 10560
- Eurygaster integriceps*
USSR 3122
wheat 8463
- Helicoverpa armigera*, cotton 4914
- Helicoverpa zea*, models 11954
- Hydraecia immanis*, maize 5624
- Hylobius abietis*, conifers 10920
- insect pests 4238, 6135
cotton 3938
- Leguminivora glycinivorella* 4164
- Leptinotarsa decemlineata*
potatoes 5849
Solanaceae 722
USSR 3146
- Mamestra brassicae*, cabbages 3851
models 6439
- Mononychellus tanajoa*, cassava 9840
- Mythimna separata* 927
- Neodontocnemis formosana*, ground-nuts 661
- Nilaparvata lugens*, rice 2659
- Panolis flammea* 8156
- Pectinophora gossypiella*, cotton 2920
- Phthorimaea operculella*, potatoes 693
- Platynota idaeusalis*, apples 11641
- Psallus seriatus*, cotton 5890
- Pyrrhalta luteola*, *Ulmus* 10014
- Rhagoletis mendax*, blueberries 8555
- Scirpophaga incertulas*, rice 1472
- Scirtothrips dorsalis*, *Citrus* 9705
- Sitobion avenae*, wheat 3661, 8459
- slugs 304
- Sucra jujuba*, *Ziziphus sativa* 1569
- Tipula* 8524
- Forest litter**
Acari, France 7013
arthropods
ecology 7015
North Carolina 7015
- Collembola, Hungary 7016
- growth regulators, residues 7919
- insecticides, residues 7920
- invertebrates
monitoring, traps 11010
Papua New Guinea 11010

Forest litter cont.

- Litoprosopus futilis*, South Carolina 5044
- Palaeomymar*, Quebec 8846
- predatory arthropods, Connecticut 5043
- Pselaphidae, Japan 5952

Forest nurseries

- arthropod pests
 - control, insecticides 10912
 - identification 10912
- insect pests, damage 11790
- Isoptera, damage 1779

Forest pests

- biology, behaviour 3973
- control 1962
 - computer techniques 1792
- ecology, population dynamics 10960
- identification 8817
- mites, fungi, interactions 5024
- monitoring 4238
- natural enemies 10914
- Ontario, reviews 11865-11868
- plant extracts, effects 5234
- population dynamics, analysis 11789
- Spain 4569

Forest trees

- Aceropyga egmondiae*, Oceania 10239
- Aenetus*, Australasia 4993
- Aphididae
 - Israel 1855
 - Jordan 10366
 - North America 3419
- Arge* 5975
- Arrhenodes dispar*, Costa Rica 9961

arthropod pests

- British Columbia 10912
- control, pesticides 11115-11116
- damage 4027
- Florida 4166
- Montana 4027
- UK 5034

arthropods

- ecology 7036
- New Zealand 8849
- UK 7036

- Calambus*, USSR 4251
- Calliteara pudibunda*, outbreaks 8821
- Cerambycidae, USSR 3042
- Choristoneura fumiferana*
 - Maine 7025-7026
 - New Brunswick 7914
 - Ontario 7939
 - Quebec 7054

- Choristoneura occidentalis*
 - British Columbia 8884-8885
 - damage 7926

- Choristoneura rosaceana*, Quebec 8840
- Cicadellidae, Illinois 11604
- Coccidae, Poland 5068

Coleoptera 5024

- Czechoslovakia 4012
- India 1862
- Korea Republic 11380
- North America 821

Cornuaspis cupressi 8804

- Curculionidae, damage 10921
- damage, evaluation 1771

- Dendroctonus frontalis*, North America 7949

- Dendroctonus ponderosae*, British Columbia 7918

- Dendrolimus pini*, USSR 3043

- Dendrolimus punctatus*, China 4023

- Diprion pini*, USSR 3045

- Epinotia pygmaeana*, Switzerland 10988

- Geometridae, USSR 4029

- Gnathotrichus* 11822

- Gracillariidae, New England 4024

- Hepialus gracilis*, North America 7023

- Hylurgopinus rufipes*, Minnesota 8864

- Hyphantria cunea*, USSR 485

insect pests

- bibliographies 8155
- books 8827
- Canada 7063
- China 1870
- conferences 4242, 11265
- damage 10918-10919
- India 1781
- interactions 3973

Forest trees cont.

- insect pests cont.
 - Italy 2556
 - Ontario 844, 11857-11862
 - pathogens 5123
 - Poland 5067
 - Solomon Islands 838, 10908
 - surveys 11857-11862
 - USSR 1809
 - Tasmania 11252
 - USA 11869-11870
 - USSR 5995

- insecticides, deposition 10906-10907

insects

- ecology 832
- North Carolina 832
- Texas 3556

- Ips acuminatus*, Poland 4037

Ips typographus

- Denmark 2984
- Europe 11850
- interactions, models 11839
- Norway 9982
- Sweden 10946

Isoptera

- damage 1779, 5508
- reviews 831

- kairomones 11851

- Lepidoptera, Spain 1373

- Leptothrips*, America 3970

- Lymantria dispar* 5938

- Bulgaria 8822-8823
- Connecticut 7062, 7961, 8897, 9955
- Czechoslovakia 4032
- damage 9933
- food preferences 7965
- Hungary 5017, 10002, 11831
- Maryland 4009, 10952, 11824
- Massachusetts 5940, 11810
- North America 11815
- Pennsylvania 9966
- USA 7947, 9977, 11008
- Virginia 10013

Lymantria monacha

- Czechoslovakia 8824
- USSR 3041

- Lymantria obfuscata*, India 5245

- Melanophila* 1821

- Metaceronema japonica*, China 7951

- Monochamus urussowii*, China 3969

- Neodiprion sertifer*, Sweden 4030

- Orgyia pseudotsugata*, British Columbia 7917

- Panolis flammea*, USSR 3044

- Pelidnota hirsutiphallica*, Panama 7950

- pest control 946, 8855

- Europe 5161

- insecticides 842

- USSR 4992, 8992

- pests, Romania 11249

- Petrejoides reyesi*, Honduras 2987

- Pissodes strobi*, British Columbia 11811

- Platypus*, Florida 7043

- Psylloidea, Norway 4390

- Rhopalocera, Spain 1823

- Rhyacionia zozana*, Oregon 9976

- Rhynchaenus*, Japan 2454

- Saissetia*, Chile 4780

- Schizotus pecticornis*, Poland 5032

- Scolytidae 3230

- India 3229

- interactions 11851

- models 11838

- Manitoba 7055, 8848

- Turkey 2950

- USSR 2948, 7065

- Semanotus japonicus*, Japan 10995

- Sesiidae, Austria 3432

- Steganacarus carinatus* 3018

- Tenthredinidae, UK 3987

- Tenuilichus*, India 2965

- Tetranychidae, USSR 2375

- Thaumetopoea pityocampa*, Spain 8872

- Trichiosoma* 6265

- Trypodendron lineatum*, British Columbia 9963

Forests

- Acari, reviews 1775
- Acaricoris ignotus*, Texas 5001

Forests cont.

- Anomalochrysa maclachlani*, Hawaii 9417

- Arachnida, German Federal Republic 4203

- Aradidae, Sweden 4998

Araneae

- Costa Rica 9950
- Maine 8905

arthropods

- Austria 5060
- ecology 833
- Finland 4026
- India 7934
- indicator species, pollution 8879
- North Carolina 833, 11817
- Poland 8879
- sampling 4026, 11817
- Uganda 4034

- Atta*, Brazil 11834

- Atta cephalotes*, Costa Rica 8921

- Bellaltica*, Western Australia 3981

beneficial arthropods

- Poland 4037
- USSR 1802
- beneficial insects
 - Czechoslovakia 2097
 - Hungary 5017
 - North America 7023
 - USSR 3043

- Calosoma sycophanta*, Connecticut 7961

Carabidae

- Belgium 10446
- Czechoslovakia 9456
- Netherlands 7070
- Ohio 10963
- Pennsylvania 9966
- Sweden 4623
- USSR 10994

- Casiniaria nigripes*, China 7019

- Chalcidoidea, Poland 5068

Coleoptera

- German Federal Republic 2997
- New Zealand 9973
- Norway 7037

- Cotesia melanoscelus*, Maryland 11824

- Crotonia*, Queensland 1879

Cryptostigmata

- Belgium 11011
- Japan 5928, 10016

- Diplopoda, France 10017

- Drosophila*, Iowa 10992

- Drosophila melanogaster*, Brazil 5022

- Eciton burchelli* 9376
- Mexico 7486

- Formica* 1008

- Connecticut 7062

Formicidae 1008

- Finland 5054, 11856

habitats

- Araneae, Maine 7025-7026
- Carabidae, Minnesota 8361

- invertebrates, Peru 8922

- heavy metals, pollutants 5054

- Hydrometra*, Madagascar 830

Hymenoptera

- India 1862

- Poland 1329

- insect pests, predators 2996

insecticides

- drift 3038
- residues 8892, 9090

insects

- Canada 9346
- China 11002
- German Federal Republic 1818, 2996

- New Zealand 4378

- Panama 5042

- Poland 7048

- surveys, India, books 10200

invertebrates

- China 5048
- Finland 1786
- German Federal Republic 1020
- heavy metals, effects 10155
- monitoring, traps 7018
- New Zealand 7018

- Isoptera 5914

- Lepidoptera, parasitoids 3872

Forests cont.

- Leptogenys*, Malaysia 3483
Litoprosopus futilis, South Carolina 5044
Lonchaea corticis, British Columbia 11811
Lymantria dispar, German Federal Republic 2998
Magiccada, Arkansas 5357
Magnocellus madagascariensis, Madagascar 814
 Membracidae, Venezuela 10
Meteorus trachynotus, Quebec 8840
 microorganisms, insecticides, effects 2046
Myrmica, USSR 2433
Nemosema elongatum
 German Federal Republic 10005
 USSR 7065
Oniscus asellus, New York 1858
 parasitoids
 China 5982, 7937
 Hungary 10002
 Massachusetts 11810
 Oregon 9976
 USSR 4029
 pest control 1777, 1781, 7928
 German Federal Republic 3995, 4159
 predatory arthropods, Connecticut 5043
Reticulitermes, Florida 11491
 Sesiidae, Georgia 8875
 soil
 Coleoptera, Italy 2983
 invertebrates 1859
 Magiccada, Kentucky 8923
 soil arthropods
 Korea Republic 8882
 Pennsylvania 8538
 soil invertebrates, heavy metals, effects 10018
 Sphecidae, Poland 2441
 Tenthredinoidea 1826
Theridion grallator, Hawaii 5458, 11819
Trachytes, Italy 5967
Trioxys, Czechoslovakia 4011
Trypodendron, Norway 1872
 watersheds, insecticides, effects 836
Winthemia fumiferanae, Quebec 7054
Forficula auricularia
 biology 9738
 control 9738
 distribution, Sweden 4387
 physiology, cardiovascular system 4316
 USSR 9738
Forficula tomis
 biology 9738
 control 9738
 USSR 9738
Formamidine acaricides, toxicity, Acari 2880
Formetanate (*N,N*-dimethyl-*N'*-[3-[(methyldamino)carbonyl]oxy]phenyl]methanimidamide) mixtures
 control
 Phyllocoptruta oleivora 9720
 Tetranychus urticae 2748
 penetration, *Rhizoglyphus echinopus* 4895
 resistance, *Scirtothrips citri* 5750-5751, 8643, 11163, 11974
Formic acid, control, *Varroa jacobsoni* 1245, 1324
Formica
 biology 1008
 Europe, books 1008
 forests 1008
 Connecticut 5043
 German Federal Republic 6613
 Japan 1863
 pathogens, isolation 6613
 physiology 1008
 prey, *Lymantria dispar* 5043
 Toxoptera odinae, interactions 1863
Formica altipetens
 Arizona 5433
 ecology, population dynamics 5433
 Helenium hoopesi, habitats, Arizona 3615

Formica altipetens cont.

- Pubilia modesta*, interactions 3615
Formica aquilonia
 Betula pubescens, forests, Finland 7077
 biology, behaviour 7077
 ecology, environmental factors 7484
 Finland 7484
 forests, Finland 5054
Formica argentea, biology, behaviour 10401, 11424
Formica cinerea
 Aphididae, interactions 8285
 ecology, population dynamics 8285
Formica cunicularia
 Belgium 10411
 biology, behaviour 10411
 physiology, ion transport 9377
Formica exsecta, Finland 8327
Formica fusca
 Aphididae, interactions 8285
 ecology, population dynamics 7481, 8285
 Europe 8327
 Finland 7481, 8330
 Formica polycetena, interactions 8330
 pollen, germination 9924
 UK 9924
Formica lugubris
 Betula pubescens, forests, Finland 7077
 biochemistry
 carbohydrates 9387
 hydrocarbons 2418
 biology, behaviour 7077, 9386
 Switzerland 9386-9387
Formica neogagates
 forests, Connecticut 7062
 prey, *Lymantria dispar* 7062
Formica obscuripes
 biology, environmental factors 8283
 Montana 8283
 Pogonomyrmex owyheei, interactions 199
Formica podzolica, biology, behaviour 10401, 11424
Formica polycetena
 Belgium 2432
 biochemistry
 carbohydrates 9387
 hydrocarbons 2418
 biology, behaviour 1229
 ecology
 environmental factors 7484
 population dynamics 7481
 Finland 7481, 7484, 8330
 forests
 Finland 5054
 German Federal Republic 2996
Formica fusca, interactions 8330
 insecticides, residues 2432
 physiology, ion transport 9377
 Poland 4517
 prey
 forests, insect pests 2996
 Leptinotarsa decemlineata 4517
 Switzerland 9387
Formica pratensis
 ecology, environmental factors 7484
 Finland 7484
 forests, German Federal Republic 2996
 Poland 4517
 prey
 forests, insect pests 2996
 Leptinotarsa decemlineata 4517
Formica rufa
 Belgium 2432
 biochemistry, carbohydrates 9387
 ecology, environmental factors 7484
 Finland 7484
 forests, German Federal Republic 2996
 insecticides, residues 2432
 Poland 4517
 prey
 forests, insect pests 2996
 Leptinotarsa decemlineata 4517
 Switzerland 9387
Formica rufa group
 ecology
 environmental factors 7484
 population dynamics 11856
 Finland 7484
 forests, Finland 11856

Formica rufibarbis

- biology, behaviour 9621
 grasslands, Belgium 9621
 Poland 4517
 prey, *Leptinotarsa decemlineata* 4517
Formica sanguinea
 ecology, population dynamics 11856
 forests, Finland 11856
Formica selysi
 biochemistry, cuticle 10405
 Manica rubida, interactions 10405
Formica sibylla
 Ammophila, interactions 8355
 biology, behaviour 8355
 Nevada 8355
Formica subsericea
 biology, behaviour 7047
 forests, Connecticut 7062
 insect pests, interactions 5915
 prey, *Lymantria dispar* 7062
 Robinia pseudoacacia, forests, Maryland 5915
 woodlands, Maryland 7047
Formica truncorum
 biochemistry, hydrocarbons 2418
 biology 9389
 behaviour 7077
 Finland 7077, 9389
Formica uralensis, biochemistry, hydrocarbons 2418
Formica yessensis, woodlands, Japan 5014
Formicidae
 Acacia, interactions 11009
 Amitermes laurensis, interactions 11476
 Annona cherimola × *A. squamosa*, Florida 4804
 Aphididae, interactions 3837
 biochemistry, fats 9388
 biology 1008, 5428, 10189, 10193
 behaviour 2431, 3488, 4447, 5427, 5437, 7047, 9382, 9388, 10217, 10396, 10418
 environmental factors 6432
 reviews 8286
 books 10192-10193
 Brazil 6525
 Calluna, habitats, UK 6470
 checklists
 Florida 4448
 Indiana 7475
 Saudi Arabia 193
 Chile 5425
 Citrus, orchards, Ethiopia 1582
 coconuts, plantations, Sri Lanka 3757
 conferences 10217
 control 7256
 biological control 4153
 crops, Cuba 10880
 distribution, Florida 1223
 East Africa 1365
 ecology 6470, 10193
 competition 7483
 distribution 5425
 population dynamics 2622, 7481, 7485, 10398, 11856
 water relations 2330
 Egypt 194
 Europe 7483, 9388
 books 1008
 evolution 3488, 10189, 10193
 Finland 7481
 fire, effects 7670
 forests 1008
 Czechoslovakia 2097
 Finland 11856
 Panama 5042
 USSR 1802
 fruit trees, India 3837
 fungi, interactions, reviews 5123
 grasslands 2622
 Utah 7670
 habitats, German Federal Republic 2598
 heavy metals, pollutants 5054
 Homoptera, interactions 10426
 hosts
 Formicidae 4447
 Opisina arenosella 3757
 identification 11420
 India 287

Formicidae cont.

insecticides, effects 1802
Isoptera, interactions 10192
Israel, books 1173
Japan 1863, 5432
Kenya 2330
Kerria mysorensis, interactions 287
Leucospermum conocarpodendron, interactions 10971
Maconellicoccus hirsutus, interactions 6624
marking 2427
Mesostigmata, interactions 2094
mites, interactions 194, 7515
monitoring, traps 5437, 7670, 8324
morphology 10193
larvae 10399
terminology 2426
Myrmecozelinae, interactions 11253
nests, preservation 4432
New South Wales 7758
parasitoids 4447
pathogens 5123
physiology 1008, 10193
fat 9385
Picea, Austria 10989
pineapples, Hawaii 3828
plant extracts, repellents 5578
plants
fungi, interactions 7485
interactions 5432
conferences 10423
predators 374, 3828, 6525, 8328, 10442
prey 3828
Cactoblastis cactorum 337
Cosmopolites sordidus 7758
Datana integerrima 2717
Macrotermes michaelseni 5514
Phyllonorycter 5014
Pseudococcidae, interactions 3828
Pteridium aquilinum, pollination 11512
Queensland 11476
Rhopalocera, symbiosis 9297
sampling 3486
semiochemicals 10396
shrubs, Victoria 10396
soil, Mediterranean countries 5382
South Africa 5427, 10971
Switzerland 374
taxonomy 193, 11420
Texas 8324
Toxoptera odinae, interactions 1863
Trombidiformes, phoresy 1171
walnuts, orchards, Mexico 2717
woodlands
Japan 5014
Maryland 7047
USA 10398

Formicinae

ecology, population dynamics 7481
Finland 7481

Formothion (*S*-[2-(formylmethylamino)-2-oxoethyl] *O,O*-dimethyl phosphorodithioate)
control

Chaetocnema indica 6748
Cydia pomonella 546
Delia radicum 1617
Lipaphis erysimi 2807
Pulvinaria 514
Rhopalosiphum maidis 3664
Termitidae 8725
effects
fungi 11204
plant pathogens 8783
mixtures, control, cotton, insect pests 746
toxicity

Anomis sabulifera 7190
arthropods 11204
Earias vittella 5194
Leptocoris acuta 11178
Forsythia koreana (see *F. viridissima*)
Forsythia viridissima, extracts, effects,
Helicoverpa assulta 8786

Fosetyl-Al, nontarget effects,
Kampimodromus aberrans 5715

Fossispa, taxonomy, new genus 4678

Fossispa lutena
food plants, Central America 4678
taxonomy, new species 4678

Fowls

insecticides
effects 8112, 8190
metabolism 3179, 11990
Foxtail (see *Alopecurus pratensis*)
Foxtail millet (*Setaria italica*)
Spodoptera frugiperda 8502
Fragaria grandifolia, habitats, *Amblyseius*
ruvinnensis, USSR 5500

France

Acyrtosiphon pisum 4851
Adoristes ovatus 11012
Agrotis segetum 8540
Aleyrodidae 2367
Apethymus 2972
Aphididae 10387
natural enemies 2634
Araneae 4527, 5465
Baris laticollis 10767
Botrytis cinerea, vectors 7716
Bruchophagus roddi, parasitoids 4695
Bruchus affinis 10646
Byrrhus 5258
Camponotus vagus 10400
Carabidae 5440, 8270
Cepaea 10502
cereals
insect pests 10569
insects 6700

Choristoneura murinana 10991, 11842
Chorthippus parallelus 3734, 6510
Chrysomelidae 2348
Coleoptera 1871, 10417
Compositae, Coleoptera 6645
crops, pest control 12036
Cydia molesta 9697
Cydia pomonella 3794
Diaphorina citri 4785
Dioryctria sylvestrella 1846
Diplopoda 10017
Diprion pini 790
Drosophila melanogaster 4092
Dryinidae 11450
Ephippiger 6372
Ephippiger terrestris 6373
forest litter, Acari 7013
Formicidae 9387-9388, 11426
fruit crops, books 2088
fruits, reports 10221
Galactites tomentosa, insects 4592
Glomeris marginata 1857
Graellsia isabellae 1827
grapes, mites 6228
greenhouses, arthropods 10752
Gryllus campestris 187
Helicoverpa armigera 2309
Helix aspersa 5340, 5533
Hemineura francescae 11003
Heterocera 9341
Hyllobius abietis 8820
Ips sexdentatus 8818, 9980
Iridomyrmex humilis 9390-9391
Isodontia mexicana 2586
Lymantria dispar, parasitoids 3012, 4016
Lysiphlebus testaceipes 4492
Mamestra brassicae 5781
Megastigmus suspectus 6005
Microselia southwoodi 7008
molluscicides, testing 953
Myzocallis coryli, parasitoids 3772
Myzocallis walshii 4033
Onthophagus 6263
Ostrinia nubilalis 3677, 10596
Oulema 4267
peach latent mosaic virus, vectors 1568
peaches, pest control, conferences 5238
pesticides, books 10185
Picea abies, insect pests 5992
Pissodes 4018
Pissodes castaneus, parasitoids 8838
Pissodes strobi 9981
plant pathogens, vectors, conferences 2109
Podisma pedestris 3360
Psallus 4042
Pseudaulacaspis pentagona 8627
Pyrrhalta luteola 5926
Quedius conicus 1837
Quercus coccifera, insect pests 7052
Quercus petraea, insect pests 5988

France cont.

rape, pest control 8058
Saissetia oleae, predators 4790
Scolytidae 7963
Sitona lineatus 1645, 10793
slugs 315
social insects 11042
soil, effects, insecticides, toxicity 12006
Sphingidae 2356
Strobilomyia melania 6008
sugarbeet, insect pests 11737
Tenthredinidae 4031
Tenuipalpidae, predators 2958
Tettigoniidae 8284
Tomicus piniperda 9999
Tortricidae 5996
Uropodina 3402
Viteus vitifoliae 8572
Yponomeuta rorellus 5066
Yponomeuta vigintipunctatus 10265

Frankliniella

biology 9716
cabbages, Oklahoma 9766
control, insecticides 6980, 9716, 9766
cotton, Arizona 6980
Europe 4264
food plants, Cuba 5548
groundnuts, Texas 3889
nectarines, Mexico 9716
predators 3889
taxonomy 4264

Frankliniella fusca

biology 730
control, insecticides 3940, 10861
cotton, Louisiana 3940, 10861
maize, Iowa 9556
monitoring 10861
plant viruses, transmission 730

Frankliniella intonsa

biology, behaviour 7800
control, cultural control 7796
Europe 6260
peas 7796
taxonomy 6260
Vigna angularis 7800

Frankliniella occidentalis

Arizona 6426
biology 730, 3121, 3836, 4974, 5774, 9921, 10904
behaviour 3384, 6426
overwintering 9524
chrysanthemums, Belgium 7007
control 3121, 3836, 4837, 5236, 5774, 7901, 9921, 10904
biological control 3862-3864, 3964, 4245, 10750, 10752
insecticides 2919, 3960, 6940, 7007, 9546, 10899

cotton

Arizona 2919
Texas 7868
cucumbers 10776
British Columbia 3863
Denmark 3864
Netherlands 3862
UK 4837

diets 3384

distribution

Finland 6123
Hungary 11383
South Africa 2940
Switzerland 5774
Europe 6260
food plants 6123
California 8662
Italy 9921
Texas 9524
greenhouse crops
Denmark 773
Finland 9486
France 10752
German Federal Republic 3836, 3964
Israel 4974
Netherlands 4245
Norway 8810, 10750

groundnuts, Texas 6905
identification 4974
maize 9546
monitoring, traps 773, 9921, 10776
morphology, mouthparts 3384

Frankliniella occidentalis cont.

- natural enemies 5236, 7901, 9921, 10904
 onions, Texas 6940
 ornamental plants 2940
 damage 11383
 North Carolina 10904
 Norway 3956, 3960, 7006
 peaches, Georgia 8634
 plant pathogens 6905
 transmission 9546, 10904
 plant viruses, transmission 730
 predators 7157, 8662
Rhododendron, German Federal Republic 10899
Saintpaulia, Denmark 7901
 sampling 7868
 taxonomy 6260
 vegetables, Norway 7157

Frankliniella pallida

- Europe 6260
 greenhouse crops, German Federal Republic 3836
 taxonomy 6260

Frankliniella schultzei

- biology 730, 1709
 behaviour 3384
 control, insecticides 665
 cotton, fields, Brazil 8771
 diets 3384
 groundnuts, India 665, 6908
 insecticides, effects 8771
 morphology, mouthparts 3384
 plant viruses, transmission 730
 predators 2468
 Solanaceae, food preferences 1709
Vigna unguiculata, Senegal 3684

Frankliniella tenuicornis

- ecology, population dynamics 11533
 Europe 6260
 maize, Iowa 9556
 taxonomy 6260
 triticale, Poland 11533

Frankliniella tritici, peaches, Georgia 8634**Frankliniella williamsi**

- biology, overwintering 9524
 distribution, Australia 3232
 food plants, Texas 9524

Frankliniella megalops

- India 2468
 prey, Thysanoptera 2468

Fraus

- Australia 9119
 books 9119
 taxonomy 9119

Fraus simulans, pastures, Tasmania 9119**Fraxinus**

- Hylesinus varius*, German Federal Republic 5061
Lepidosaphes ulmi, USSR 792
Neargyractis slosonalis, Florida 3976
Prays ruficeps, Czechoslovakia 5385
 Scarabaeoidea, China 1873
Vespa crabro 5463

Fraxinus americana, *Lymantria dispar*, Ontario 7954**Fraxinus angustifolia**, *Psallus lepidus*, Massachusetts 11808**Fraxinus chinensis**, *Ericerus pela*, China 789**Fraxinus excelsior**

- Brachynotocoris puncticornis*, Netherlands 8868
Psallus lepidus, Massachusetts 11808
Tegolophus califraxini, Italy 3996

Fraxinus mandshuricus, *Cossonus***rotundicollis**, USSR 8908**Fraxinus pallisae**, *Psallus lepidus*, Massachusetts 11808**Fraxinus retusa**, *Ericerus pela*, China 789**Frazer fir** (see *Abies fraseri*)**Freeze drying**, control, museum specimens, insect pests 11016**Freezing**, control, museum specimens, insect pests 11016**French beans** (see *Phaseolus vulgaris*)**French Guiana**

- Anelosimus eximius* 237
Noctuidonema guyanense, hosts 11075

Fresh water

- Gastropoda, Morocco 10501
Oziotelphusa senex, India 2049
Frogs, insecticides, residues 8133
Frontalin
 attractants
 Dendroctonus ponderosae 2212
 Dendroctonus pseudotsugae 3004
 Dendroctonus terebrans 7238, 8874
 mixtures, control, *Dendroctonus frontalis* 11825
 synthesis 5222

(-)-Frontalin, attractants, *Dendroctonus terebrans* 7238**(+)-Frontalin**, attractants, *Dendroctonus terebrans* 7238**Frontinella pyramitella**

- Argyodes trigonum*, interactions 9413
 cotton, fields, Texas 2906
 forests, Maine 9949
 New York 9413
 prey
 Aphididae 2906
 Choristoneura fumiferana 9949

Frontinella frutetorum

- Aranus diadematus*, interactions 3562
 Austria 3562

Fructose, effects, *Anthonomus grandis* 8772**Fruit trees**

- Apate monachus*, Cuba 1580
 Aphididae, India 3754
Archips rosanus, USSR 532
 arthropod pests, control, integrated control 10660
Cydia funebrana, USSR 2728
Cydia molesta, USSR 4729
Cydia pomonella
 France 3794
 USSR 534, 1553
 Diaspididae
 Israel 488
 USSR 2696
Diaspidiotus prunorum, Iran 493
Edwardsiana rosae, damage 8549
 Homoptera, USSR 4728
 insect pests 6458
 control, insecticides 5167
 Hungary 6776
 parasitoids 4730
 plant extracts, effects 5234
 Poland 5167
 Switzerland 5720
 USSR 2727, 4730
 insects, India 3837

Lymantria obfuscata, India 5245**Panonychus ulmi**

- Ontario 8629
 USSR 537
 pest control
 reviews 489
 USSR 484, 531, 533, 538, 4727

Pseudococcus comstocki 6460**Pyrilidae**, USSR 3779**Quadrastipidiotus perniciosus**, USSR 8548, 8580**Rastrococcus invadens**, Togo 563**Synanthedon** 10691**Tetranychidae**

- USA 10689
 USSR 5694, 11643

Tortricidae

- China 535
 USSR 2721

Yponomeuta malinellus, USSR 2722**Fruits**

- Acari, damage 2694
Aleurodicus dispersus 6454
Anastrepha obliqua, America 6458
 Aphididae, Jordan 10366
 arthropod pests 9110
 books 2088
 Cape Verde 151
 control, acaricides 1537
 Florida 4166
 German Democratic Republic 910, 7550
 India 12021
 Italy 11637
 natural enemies 526
 Sardinia 11620

Fruits cont.**arthropod pests** cont.

- Sicily 11655
 Singapore 5248
 USSR 526
 arthropods, Netherlands 3145
Bactrocera, Japan 3750
Bactrocera dorsalis 6455
 Taiwan 4707, 10657
Bactrocera zonata, India 2692
 bibliographies 9110
 Canada, conferences 8173
Ceratitis capitata, Egypt 9698
 Cicadellidae 486
 Coccoidea, USSR 524
 commodities
 Anastrepha ludens 9398
 Diptera, detection 4080
 fumigants, residues 11017
 insecticides, residues 11219
 pest control 3076
 pesticides, residues 7082
Cornuaspis cupressi 8804
 Curculionidae, USSR 496
Cydia pomonella, USSR 1555
Dichocrocis punctiferalis, Japan 5741
Drosophila 5722
Drosophila longivittata, India 10659
Drosophila mauritiana, Mauritius 3438
 France, reports 10221
 habitats, *Biosteres longicaudatus*, Mexico 8636
Hemiberlesia rapax 6456
Hyphantria cunea, USSR 485
 insect pests
 control
 integrated control 3134
 microbial pesticides 589
 Italy 2556
 monitoring 4238
 Nigeria 593
 pathogens 3113
 USSR 589, 3113
 insecticides, residues, detection 9089
 Lepidoptera 10694
 damage 525
 Spain 1373
 USSR 527, 530
 mites, Spain 4354
 pest control 526, 946, 1964, 4240, 9132, 10221
 Austria 5693, 9035-9036
 Europe 5161
 Florida 12018
 German Democratic Republic 2690
 German Federal Republic 5182, 10101
 Israel 4708-4709, 4770, 11613
 Netherlands 1014
 reviews 487
 Sweden 3120
 USSR 484
 pest resistance 2110
 pesticides, application 7704
 production, books 7254
Pseudococcus comstocki, USSR 529
Pseudotheraptus wayi, damage 10714
 Psylloidea, Norway 4390
 pyrethroid insecticides, persistence 3780
Quadrastipidiotus perniciosus 6454
 Chile 7728
 German Federal Republic 7709
 research
 Australia, reports 9132
 Nova Scotia, reports 10218
 Sarawak, reports 7299
 Sesiidae, Austria 3432
Siphoninus phillyrae, California 8914
 Tephritidae 3753
 Costa Rica 4479
 Mexico 8636
 New Zealand 7726
 Tetranychidae, USSR 2375
 Tortricidae
 Europe 3777
 USSR 528
 USA, reports 2113
Yponomeuta, USSR 2720
Ftorafur (see 5-Fluoro-1-(tetrahydro-2-furyl)-uracil)
Fulgoridae, biochemistry, waxes 3296

- Fulgoroidea**
 biology 7310
 parasitoids 9409
- Fulmekiola serrata**
 biology 9526
 sugarcane, Japan 9526
- Fumaria officinalis**, *Phyllotreta nemorum* 2784
- Fumigants**
 control
 cereal grains, insect pests, conferences 12034
 stored products pests 11037
 regulations 1583
 toxicity, testing 4085
- Fumigation**, German Federal Republic, books 1004
- Fungal insecticides** (see also Microbial pesticides)
 pest control 6107
 reviews 3105, 8052
- Fungi** (see also Entomogenous fungi)
 arthropods, interactions 9980
 Attini, interactions, reviews 4459
Bolitotherus cornutus, New York 5009
- Coleoptera**
 interactions 4036
 reviews 4367, 5062
 control, insecticides 11202
Cryptococcus fagisuga, interactions 4022
 Diptera, interactions 10915
 entomophilic nematodes, interactions 4127
 extracts, toxicity, *Choristoneura fumiferana* 7075
 habitats, *Dendrocheyla bregetovae*, USSR 12017
 insecticides, effects 4932, 8783, 10123, 10580, 11203-11204
 insects 4817
 interactions
 books 5240
 reviews 4817, 5064-5065, 5102, 5123, 5164
Ips typographus, interactions 787
 Isoptera, interactions 6241
Lathridius anthracinus, interactions 4050
 mites, interactions 10946
 plants, Formicidae, interactions 7485
 Scolytidae, interactions, reviews 5063
Scolytotrupes mikado, symbiosis 3104
 stored products pests, interactions 3051
- Fungicide tolerance**, *Metarhizium anisopliae* 10066
- Fungicides**
 insecticides, interactions 10814
 mixtures, compatibility 942
 nontarget effects
 Aleochara bilineata 1292
 Apis mellifera 12004
 arthropods 9035
 beneficial arthropods 4157
 Phytoseiidae 9665
 testing 4157
 vineyards, beneficial arthropods 9659
 toxicity, *Amblyseius mckenziei* 6577
- Fur**
 insect pests
 biology 1896
 control 1896
- Furacon** (see Benfuracarb)
- Furadan** (see Carbofuran)
- Furapiole**, synergism 5193
- Furathiocarb** (2,3-dihydro-2,2-dimethyl-7-benzofuranyl 2,4-dimethyl-5-oxo-6-oxa-3-thia-2,4-diazadecanoate)
 control
 Atherigona 416
 Delia antiqua 6939
 Delia radicum 6911
 Nephotettix virescens 1464
 Oscinella frit 4649, 6718
 Ostrinia nubilalis 4646
 Psylliodes chrysocephala 3850
 sugarbeet
 arthropod pests 11739
 insect pests 2859
- Furathiocarb cont.**
 effects, sugarbeet 11740
 thiram, interactions 10815
 toxicity
 Cyrtorhinus lividipennis 11464
 Somaticus 5627
 Somaticus geniculatus 6716
- Furcipes rectirostris** (see *Anthonomus rectirostris*)
- Furniture**, *Lasioderma serricorne*, Italy 8960
- 1 α -(3'-Furyl)-4 β ,4a β -epoxy-5 β ,8a α -dimethyl-3-oxooctahydro-1H-2-benzopyran**
 effects, *Leptinotarsa decemlineata* 9107
 synthesis 9107
- 1 β -(3'-Furyl)-4 α ,4a α -epoxy-5 β ,8a α -dimethyl-3-oxooctahydro-1H-2-benzopyran**
 effects, *Leptinotarsa decemlineata* 9107
 synthesis 9107
- Fusaric acid**, synergism 11158
- Fusarium**
 Diptera, interactions 346, 10915
 hosts
 Heteropsylla cubana 820
 insects 8989
 Orthezia praelonga 4954
 Niesthrea louisianica, interactions 6631
Fusarium coccophilum (see *Nectria flammea*)
 hosts, *Hemiberlesia rapax* 5904
Fusarium graminearum (see *Gibberella zeae*)
Fusarium larvarum, chemical composition 7131
Fusarium moniliforme (see *Gibberella fujikuroi*)
Fusarium nivale, insecticides, effects 11206
Fusarium oxysporum
 control, insecticides 11202
 hosts, *Sitobion avenae* 2604
 insecticides, effects 11194
Fusarium solani, hosts, *Cossus cadambae* 1799
Fusarium sporotrichioides
 insecticides, effects 11195
 toxins, effects, *Choristoneura fumiferana* 8993
Fusarium tricinatum, hosts, *Sitobion avenae* 2604
Futura (see *Bacillus thuringiensis* subsp. *kurstaki*)
- Gabon**, *Phenacoccus manihoti*, natural enemies 10837
- Gabrieus splendidulus**
 biology 4979
Pinus sylvestris, forests, Poland 4979
Tomiscus piniperda, interactions 4979
- Galactites tomentosa**
 insects
 France 4592
 Madeira 4592
- Galapagos Islands**, *Anastrepha fraterculus* 4797
- Galendromimus alveolaris** (see *Typhlodromus alveolaris*)
- Galendromus annectens**
 avocados, habitats, North America 9646
 genetics, hybridization 9646
- Galendromus longipilus**
 grapefruits, orchards, Cuba 9722
 taxonomy, new species 9722
- Galeodes**
 India 5413
 monitoring, traps 5413
 prey, Acrididae 5413
- Galerucella grisescens**, taxonomy, synonyms, *Galerucella placida* 2134
- Galerucella luteola** (see *Pyrrhalta luteola*)
- Galerucella nymphaeae**
Nymphaea alba, Italy 8021
 pathogens 8021
- Galerucella placida**, taxonomy, synonyms, of *Galerucella grisescens* 2134
- Galerucella solarii**
Alnus cordata, Italy 11802
 biology 11802
 natural enemies 11802
- Galerucinae**
 Nepal 149
 South East Asia 2134
 taxonomy 2134
- Galinsoga parviflora**, *Orthezia insignis*, India 3979
- Galium**, *Myzus cerasi*, Europe 9694
- Galleria**, growth regulators, effects 9799
- Galleria mellonella**
 antibiotics, effects 116
Apis cerana, interactions 8331
Apis mellifera, interactions 1286
 bioassays, juvenile hormones 8257
 biochemistry, proteins 9244, 11347
 biology 258, 1286, 9472
 behaviour 3379
 development 9196
 China 8331
 control 9472
 microbial pesticides 11112
 physical control 8331
 detection 3379
 disinfection 4425
 distribution, Japan 1286
 ecology, population density 2335
 fungi, interactions 4132
 genetics, gene expression 11328
 hives, China 9472
 insecticides
 effects 1122, 11970
 pathogenicity 898, 6032, 6087, 11077, 11930
 toxicity 10060
 kairomones 9442
 microorganisms, interactions 8319
 morphology, ovaries 7325
 parasitoids 26, 253-254, 258, 271, 2520, 2971, 4496, 4523, 4538, 6550, 7531, 9442, 11754
 toxins 10435
 pathogens 117, 1922, 1935, 1955, 3094, 3107, 4098, 4100, 4149-4150, 4609, 6071, 6080, 6088, 6776, 8026, 8984, 10069, 11072, 11908, 11911, 11914, 11924, 11934, 11940, 11943
 physiology
 blood cells 3107
 development 2176
 endocrine system 1119, 9261, 10312, 11328, 11330
 haemolymph 1053
 integument 5306
 nervous system 3305
 nutrition 2234
 respiration 11924
 sound production 4299
 predators 1236
 wheat, commodities 6032
- Gallic acid**, effects, *Lymantria dispar* 7024
- Galls**
 Acari, *Cinnamomum tamala* 10533
Aceria caulobius, *Suaeda fruticosa* 3628
Aceria zelkoviana, *Zelkova serrata* 11828
Anadiplosis, *Machaerium aculeatum* 1880
Andricus, *Quercus incana* 6012
Andricus mukaigawae, *Quercus* 1867
Aploneura lentisci, *Pistacia lentiscus* 6668
Asphondylia
 Convolvulaceae 7567
 food plants 2697
 Larrea tridentata 8437-8438
Asphondylia boerhaaviae, weeds 1386
Asphondylia riveae, *Rivea hypocrateriformis* 2576
Asteromyia carbonifera, *Solidago altissima* 6646
Baileyna indica, *Ehretia acuminata* 10977
 Cecidomyiidae
 Gramineae 3731
 plants, evolution 10445
Ceratovacuna nekoashi, *Styrax japonica* 3022
Cleonis pigra, *Cirsium arvense* 4577
 Cynipidae
 food plants 4988

Galls cont.

- Cynipidae cont.
plants 839
Quercus 11805
Diplolepis, *Rosa arizonica* 9915
Diptera, plants, books 10197
Dryocosmus kuriphilus, *Castanea crenata* 9672
Epiblema scudderiana, *Solidago* 3368
Eriophyes acanthus, *Eranthemum pulchellum* 777
Eriophyes emarginatae, *Prunus americana* 8877
Eriophyes laevis, *Alnus glutinosa* 8856
Eriosoma, *Ulmus* 9940
Eurosta solidaginis
Solidago altissima 3616, 6134
Solidago canadensis 783
Euura lasiolepis, *Salix lasiolepis* 4013, 4980
Euura mucronata, *Salix cinerea* 5038
Fergusonina syzygii, *Syzygium cumini* 5759
Giraudiella inclusa, *Phragmites australis* 10541
Glycaspis constricta, *Eucalyptus stricta* 2959
Hemadas nubilipennis, *Vaccinium angustifolium* 5710
insect pests
Phragmites australis 4682
woody plants 5021
insects, *Rosa canina* 2558
Isocolus verbenacus, *Salvia* 7891
Kurisakia ailanthi, *Pterocarya rhoifolia* 1840
Melaphis rhois, *Rhus glabra* 10522
Nanophyes, *Tamarix troupii* 6994
Neolasioptera rostrata, *Baccharis* 3618
Neolithus fasciatus, *Sapium biglandulosum* 1880
Pachyonyx quadridens, *Butea monoperma* 2976
Pemphigus, *Populus maximowiczii* 9939
Petrova resinella, *Pinus sylvestris* 5922-5923
Phaonia gallicola, *Pteridium aquilinum* 1389
Pontania pacifica, *Salix lasiolepis* 7958
Rhabdophaga deletrix, *Salix alba* 4000
Rhopalomyia californica, *Baccharis pilularis* 1287, 4597
Slavum wertheimae, *Pistacia atlantica* 5921
Tenthredinidae, *Salix lasiolepis* 4982
Thecodiplosis japonensis, *Pinus* 9929-9930
Trioza, *Myrcia itambensis* 1880
Urophora cardui, *Cirsium arvense* 2566

Gamasida (see Mesostigmata)**Gamma-BHC** (see Lindane)**Gamma-Col** (see Lindane)**Gamma-HCH** (see Lindane)**Gamma radiation**

control

- museum specimens, insect pests 11016
persimmons, commodities, insect pests 7991

effects

- Acarus siro* 11878
Anastrepha suspensa 10323
Anthonomus grandis 944, 3170, 4924, 5881, 10324
Bactrocera cucurbitae 2295, 10777
Callosobruchus chinensis 1915, 1917, 3362
Callosobruchus maculatus 3065
Ceratitis capitata 3361
Cydia pomonella 4353, 4744
Ectomyelois ceratoniae 11357
Ephestia calidella 2702
Ephestia kuehniella 2293-2294, 9282
Helicoverpa zea 2932, 4361
Neoalectana carpocapsae 11088
Pantomorus cervinus 10721

Gamma radiation cont.

effects cont.

- Phthorimaea operculella* 7971
Pyralidae 5081
Quadraspidiotus perniciosus 11048
Schistocerca gregaria 10322
Spodoptera litura 7398, 7847
Tribolium 1143
Tribolium anaphe auct. 8263
Tribolium castaneum 4064
Tribolium confusum 3064
Xestia c-nigrum 4163
nontarget, effects, mangoes, commodities 7114
sterilization, *Phthorimaea operculella* 11025
Gammaurus fasciatus, insecticides, effects 6199
Gammaurus pseudolimnaeus, insecticides, effects 8115
Gammaurus roseli, insecticides, toxicity 8098
Gamolepis tagetes, *Helicoverpa armigera* 9920
Ganoderma applanatum
Bolitotherus cornutus, New York 5009
Hadraula blaisdelli 10756
Gardens
Orsillus depressus, Europe 1878
pest control, books 6230
Gardona (see Tetrachlorvinphos)
Gargaphia solani
biology, behaviour 6408
predators 6408
Garlic (*Allium sativum*)
Acrolepiopsis assectella, Poland 1704
Anthomyiidae, Hungary 7831
arthropod pests
biology 6233
control 6233
cultural control 720
damage 6233
natural enemies 6233
USSR 720
extracts, antifungal agents, *Beauveria bassiana* 11498
fields, Hymenoptera, Poland 1704
insect pests, India 8186-8187
repellents, *Sitophilus* 8944
Rhizoglyphus echinopus, Korea Republic 1705
Thrips tabaci, Taiwan 11749
Gascardia destructor (see *Ceroptastes destructor*)
Gasteria, *Aloephagus myersi*, damage 8800
Gastroidea polygoni
biology 2575
Polygonum aviculare, USSR 2575
Gastrophysa atrocyanea
biology, phenology 2564
cold resistance 1059
distribution, Japan 3428
Japan 1059
Polygonum, China 2564
Gastrophysa viridula
pollution, effects 5809
Rumex obtusifolius 5809
Gastropoda
Achatina 313
Achatina fulica 2542, 3600, 3602, 5536-5537, 8403, 11499
Aegopinella nitidula 6615
Arianta arbustorum 5544, 7546
Ariolimax columbianus 319
Arion 370, 5778, 6613, 6627, 9483
Arion ater 301, 7548
Arion circumscriptus 4565
Arion distinctus 951
Arion fasciatus 3745
Arion fasciculatus 356
Arion hortensis 302, 612, 950, 3659
Arion intermedius 475
Arion rufus 10499
Arion subfuscus 6615, 9396
Athoracophorus bitentaculatus 7547
Boettgerilla pallens 308
Bostryx conspersus 1371
Bradybaena similaris 10684
Candidula 3522
Cepaea hortensis 8408-8409, 10502

Gastropoda cont.

- Cepaea nemoralis* 2549, 3599-3600, 5542, 6613, 6618, 7549, 9216, 10502
Cernuella virgata 369
Cochlicella 369
Cryptozona belangiri 3834
Deroceras 6627, 9483
Deroceras agreste 9486
Deroceras caruanae 316, 612
Deroceras laeve 356, 6622
Deroceras panormitanum 5541, 7547
Deroceras reticulatum 278, 301-302, 305, 309, 314, 318, 327, 356-358, 370-371, 475, 483, 505, 598, 706, 951-952, 954, 2542, 2548, 2551, 3659, 3682, 3745, 4702, 5539, 5692, 6617, 7544, 8405, 9486
Elonidae 9216
Euglandina rosea 313, 2550
Euhadra peliomphala 2542
Helicidae 9216
Helix 2547
Helix aspersa 307, 2543-2546, 2548, 3601, 4566-4567, 5340, 5533-5535, 6339, 6621, 9214, 9236, 9266, 9482, 10497
Helix aspersa var. *maxima* 306-307
Helix lucorum 2543-2544, 5540, 6619
Helix pomatia 2543-2544, 3601, 6616, 7374
Helix vittata 6614
Indoplanorbis exustus 10099
Lehmannia valentiana 303, 5543
Limax flavus 4565, 8404, 9307
Limax marginatus 2542, 4565
Limax maximus 303, 10498, 10503
Limax pseudoflavus 300, 310
Lymnaea luteola 10099
Lymnaea stagnalis 950, 4568, 5545, 10500
Lymnaea truncatula 6623
Monacha cartusiana 9485
Monacha syriaca 3522
Otala lactea 317, 9481
Pila globosa 7209, 7545, 8401
Pomacea 454, 5532
Pomacea canaliculata 449, 1372, 8402, 10624
Pomacea lineata 453
Prosobranchia 11257
Sarasinula plebeia 312, 640
Semisulcospira libertina 8402
slugs 304, 315, 371, 474, 704-705, 6226, 9538
snails 7268, 7776, 8407, 9186, 9401, 10495, 10747, 11571
Stylommatophora 9145
Subulinidae 9216
Tandonia budapestensis 370, 612, 951, 3659, 9483
Theba pisana 369, 8406
Xeropicta derbentina 3521-3522
Zebrina eburnea 3522
Zonitoides nitidus 6996
amenity and recreation areas, Singapore 10887
cereals, UK 10190
checklists, Wyoming 6620
conferences 1022
control 10887
molluscicides 10673
crops, Romania 11249
distribution
Morocco 10501
West Africa 5538
forests, Poland 6615
fresh water 10501
India 12021
insecticides, residues 7207
nervous system, evolution, reviews 2243
nomenclature, UK 1012
ornamental plants, USSR 12028
pathogens 8980
physiology
nervous system 5324
reproduction 2542
sense organs 9236
predators 313, 2550, 4537
strawberries, Belgium 10673
sugarbeet, Iran 3896

- Gastropoda cont.**
 taxonomy 9144
 UK, books 11257
 weeds, New South Wales 2572
- Gaylussacia, *Rhagoletis pomonella*** 6460
- Gea heptagon***
 cotton, fields, Texas 8777
 prey, cotton, insect pests 8777
- Geina periscelidactyla***
 biology 9661
 taxonomy 9661
- Geina sheppardi***
 biology 9661
 grapes, Ontario 9661
 taxonomy, new species 9661
- Gelechia senticetella***, distribution, UK 8299
- Gelechiidae**
 conifers, Morocco 5984
Copaifera langsdorffii, Brazil 807
 crops, Spain 1373
 Europe 3266, 6285
 morphology 3266, 6285
 parasitoids 4540
 taxonomy 3266, 6285
 USSR 4540
- Gelinae**
 evolution 2154
 forests, USSR 4029
 hosts
 Geometridae 4029
 Lepidoptera 2154
- Geminivirus group, vectors, Hemiptera** 11062
- Genetic control**
Ephestia cautella 11051
Heliothis virescens 8716
- Genetic engineering**
Bacillus, transformation 9002
Bacillus thuringiensis, toxins 8018, 11114
 Baculoviridae
 insecticides 8040
 reviews 8015
Bombyx mori, proteins, production 3590
 cotton, pest resistance 7858
 crops, pest resistance 3136-3137
Flavobacterium, insecticides, degradation 11183
 insect growth regulators 7232
 insect viruses
 enzymes, production 11108-11109
 pest control 3128
 proteins, production 10081
 insecticides 3108, 8033
Metarhizium anisopliae, transformation 9001
 nuclear polyhedrosis viruses
 insecticides 7133
 vectors 8991
 pest control 3089
 reviews 3138
 pest resistance 1741, 1979-1981, 4228
 pest control 6131
 plants, pest resistance 11121
 tobacco, pest resistance 5893
Vigna unguiculata, pest resistance 9798
 viral insecticides, pest control 6106
 wheat, pest resistance 7596
- Genetic transformation, pest control, reviews** 11356
- Genetics**
Acanonicus hahni, cytogenetics 7392
 Acrididae 8321
 chiasmata 10320
 chromosomes 1130
 genes, enzymes 4438
 karyotypes 9279
Acyrtosiphon pisum, polymorphism 1533
Agelenopsis aperta, selection 10442
Allonemobius fasciatus, population genetics 3359
Amblyseius potentillae, genes, insecticide resistance 10437
Antheraea polyphemus, gene mapping 118
Anthrenus grandis, mutants 6375
 Aphididae 1129, 3350
 chromosomes 3353, 5347
- Genetics cont.**
 Aphididae cont.
 gene flow 11530
Aphidius, population genetics 4506
Aphis gossypii, chromosomes 6377
Apis mellifera 11454
Autographa californica, gene expression 8036
Bacillus thuringiensis 8029
 DNA 11099
 genes, toxins 1938, 3092, 5116, 7125, 8011-8012, 8976, 10065, 10076, 11094
 genetic engineering 3138, 4105, 11114
 plasmids, transfer 10063
 reviews 7127
Bacillus thuringiensis subsp. *aizawai*, genes, toxins 1930, 7123
Bacillus thuringiensis subsp. *berliner*, DNA, nucleotide sequences 7122
Bacillus thuringiensis subsp. *kurstaki*, genes, toxins 6064
Bacillus thuringiensis subsp. *tenebrionis*, genes, toxins 6064
Bactrocera dorsalis, mutants 4346
Bactrocera oleae
 genes
 cuticle 1137
 vitellogenins 3354
 Baculoviridae 8007, 8033
 genetic engineering 993, 3108, 7148, 8040
Beauveria bassiana
 DNA, characterization 4123
 genetic transformation 11085
Bemisia tabaci 997
Bombyx mori 5528, 8262, 8400, 9480, 10317
 gene expression 119, 1353
 gene mapping 2290
 genes 4351, 5531, 7396
 conversion 298
 genetic engineering 3590
 genetic variation 1361
 hybridization 293-294
 mutants 9233
 polymorphism 2287
 population genetics 5529
 protein synthesis 6287
 proteins 3356
 sex reversal 11493
Caledia captiva 181
Calliptamus barbarus, chromosomes 182
Callosobruchus maculatus
 phenotypes 9172
 population genetics 4352
Campoplex sonorensis, gene expression 8371
Cepaea 10502
Cepaea nemoralis
 DNA 5542
 phenotypes 7549
 population genetics 3599
Ceratitis capitata
 chromosomes 6380
 cytogenetics 7390
 mutations 7386
 phenotypes 7388
 population genetics 11614
 recombination 4350
 sex differentiation 10207
Charaxes jasius, chromosome number 1131
Chorthippus jucundus
 cytogenetics 1134
 nucleolus organizer 7393
 Coleoptera, karyotypes 5344
 crops, genetic engineering, pest resistance 3137
Cydia pomonella, mutations 2286
 Cynipidae, chromosome number 839
Danaus plexippus, genes 5350
Delia radicum, chromosome translocation 2291
Dendroctonus 6268
Dendrolimus spectabilis, gene expression 30
Deroceras reticulatum, genes, enzymes 358
- Genetics cont.**
Diabrotica virgifera group, genes, isoenzymes 2127
Dichroplus pratensis
 B chromosomes 1212
 cytogenetics 6378
 Diptera, genes 7395
Drosophila
 chromosomes 9278
 conferences 3355
 gene expression 11355
 genes 9275
 heterozygosity 865
 reproduction, isolation 4276
Drosophila auraria, gene expression 7389
Drosophila hydei 6382
Drosophila immigrans, genes, enzymes 6385
Drosophila melanogaster 9274, 9276-9277
 chromosomes, analysis 3346
 development 9273
 gene expression 51, 7326
 genes
 activity 11353-11354
 loci 7381
 locomotion 5351
 proteins 7378
 genotypes 3383
 growth regulators, resistance 7231
 mutations 6065
 population genetics 9280-9281
 selection 2292
Drosophila pseudoobscura 6374
Drosophila subobscura
 chromosomes 5353
 genes 5352
Enchenopa binotata complex, variation 5955, 5957
 entomogenous fungi, genetic engineering 885
 entomopathogens, genetic engineering 884
Ephippiger 6372
Epiphyas postvittana 6814
Eyprepocnemis plorans, B chromosomes 5345
Flavobacterium, genetic engineering 11183
 Formicidae
 karyotypes 5426
 population genetics 2425
Galleria mellonella, gene expression 11328
 genetic engineering, pest resistance 3136
Glabromicroplitis croceipes 1300
 phenotypes 9441
Glyphina, karyotypes 5000
Gryllus, DNA 6384
Gryllus bimaculatus, reproduction 3347
Gryllus rubens 9189
Heliconius, polymorphism 11352
Helicoverpa
 chromosomes 8261
 genotypes 5341
Heliothis virescens, genes, sequences 7232
Helix aspersa 307
Heteracris littoralis
 B chromosomes 1136
 chromosomes 6506
 Heterocera 10273
Heterorhabditis, genome analysis 1923
 host parasite relationships, models 4463
Hypolimnas misippus, polymorphism 7387
 insect pests, insecticide resistance 11119
 insect viruses
 genetic engineering 6106
 pest control 3128
 insects
 genes, position 3348
 polymorphism, models 5591
 population genetics 6431
 research 11353
 reviews 7391
 RNA 5348

Genetics cont.

- iridescent viruses, genome analysis 4125
- Kaloterms flavicollis*, chromosomes 6379
- Lepidoptera, nucleotide sequences 4555
- Leptothorax*, polymorphism 195
- Lixophaga diatraeae*
 - karyotypes 8357
 - mutations 8358
- Locusta migratoria*
 - chromosomes, chiasma frequency 3349
 - cytogenetics 1135
 - gene mapping 2289
 - genes 2288
- Macrosiphum rosae*
 - clines 786
 - phenotypes 9918
- Macrotermes* 6598
- Manduca sexta*
 - gene expression 1138, 5334, 9256
 - genes 10321
- Mayetiola destructor*
 - chromosomes 3352
 - cytogenetics 3351
- Mesostigmata 4349
- Metarhizium anisopliae*
 - DNA 6072
 - gene transfer 10066
 - genes 6073
- Mononyctellus* 2938
- Myrmecia pilosula*, cytogenetics 8260
- Nabis* 3545
- Neoplectana carpocapsae*, genetic improvement 8026
- Nezara viridula* 6386
- Nilaparvata lugens*, chromosome number 1132
- nuclear polyhedrosis viruses
 - gene expression 9000, 10081, 11092
 - gene mapping 11080
 - genes 2177, 11091, 11093, 11101
 - DNA 4559
 - nucleotide sequences 4106
 - genetic engineering 7133, 8991, 11108-11109
 - genomes 11106
 - recombinant DNA 6060
- Oecidryas*, population genetics 1140
- Oedipoda germanica*, cytogenetics 5349
- Oligomerismus oregonensis*, karyotypes 2958
- Orthoptera, karyotypes 3471
- Ostrinia nubilalis* 3667
- Pachypasa otus*, chromosomes 7321
- Papilio*, chromosomes 4345
- Papilio bairdi*, mutations 10318
- Papilio zelicaon*, population genetics 3358
- Pectinophora gossypiella* 6436
 - artificial selection 2218
 - reviews 6964
- pest resistance, genetic engineering 6131
- Phaulacridium vittatum*, polymorphism 2406
- Philaenus spumarius* 7382
- Phorodon humuli*, genes, enzymes 6673
- Phthorimaea operculella*, mutants 6376
- Phytoseiidae, hybridization 9646
- Picromerus bidens* 10460
- plants, genetic engineering 11121
- Plutella xylostella*, insecticide resistance 2809
- Podisma pedestris*, population genetics 3360
- Praxibulus*, karyotypes 3468
- Pyrrhocoris apterus* 4347
 - mutants 4344
 - mutations 4348
- Reticulitermes flavipes*, alleles 7538
- Rhagoletis*, population genetics 11616
- Rhagoletis pomonella* 8597
 - genes 5734
 - racess, phenology 543
- Rhopalosiphum maidis*, karyotypes 9552
- Rodolia cardinalis* 2767
- Schistocerca gregaria*, cytogenetics 1133

Genetics cont.

- Schizaphis graminum*, DNA 6383
- Sitobion*, karyotypes 10637
- Sitophilus oryzae*, enzymes 8925
- Sitophilus zeamais*, genes, enzymes 5090
- Solenopsis*, hybridization 10427
- Spathosternum prasiniferum*, chromosomes 8259
- Spilostethus pandurus*, polymorphism 784
- Spodoptera litura*, DNA 5342
- Stigmella*, alleles 1830
- Tenebrio molitor*
 - DNA 4071
 - gene mapping 1139
 - genome analysis 3058
- Tenebrionidae, cytogenetics 7394
- Tephritidae 4235
- Tetranychus*, acaricide resistance 11162
- Tetranychus kanzawai*, sex ratio 3748
- Tetranychus pacificus*, acaricide resistance 2719
- Theridion grallator*, polymorphism 5458
- tobacco, genetic engineering, pest resistance 5893
- Tribolium castaneum*, selection 10319
- Trichogramma maidis*, population genetics 7397
- Trichoplusia ni*
 - gene mapping 117
 - mutations 8709
- Trimerotropis pallidipennis*, population genetics 1141
- Vigna unguiculata*
 - genetic engineering, pest resistance 9798
 - pest resistance 8704
- Xenocatantops humilis* 7383
- sex chromosomes 5343
- Zygaena*, population genetics 1142
- Genista*, Psocoptera, Spain 8830
- Genista aetnensis*, *Arytainilla barbagalloi*, Italy 11515
- Genista ephedroides*, *Bryobia cavalloroi*, Sardinia 11517
- Genista monspessulana*, extracts, effects, *Uresiphita reversalis* 10893
- Genotropis**
 - hosts, *Caloptilia theivora* 2935
 - tea, plantations, India 2935
- Geocoris**
 - biology, behaviour 8340
 - insecticides, effects 5820
 - predators 8340
 - prey, arthropods 8340
 - soyabeans, fields, Brazil 5820
- Geocoris pallidipennis*
 - biology 8360
 - Cucurbitaceae, fields, Iraq 4836
- Geocoris punctipes*
 - parasitoids 4478, 4520
 - prey, *Anticarsia gemmatilis* 4862
 - soyabeans, fields, Florida 4862
- Geodephaga**, taxonomy 3234
- Geolaelaps*, grasslands, Colorado 8533
- Geolaelaps aculeifer*, *Geolaelaps oreithyiae*, differentiation 8533
- Geolaelaps oreithyiae*
 - Geolaelaps aculeifer*, differentiation 8533
 - grasslands, Colorado 8533
 - taxonomy, new species 8533
- Geometridae**
 - Betula nana*, Europe 7033
 - bilberries, Sweden 7714
 - biology 9975
 - behaviour 5374
 - Brazil 6525
 - control, insecticides 810
 - Eucalyptus*, Australia 11005
 - Europe 9975
 - forest trees
 - India 8917
 - USSR 4029
 - jojoba, USA 3921
 - Maine 10430
 - natural enemies 9975
 - parasitoids 3921
 - predators 6525, 7714, 10430

Geometridae cont.

- Quercus*, USSR 810
- rodents, interactions 7033
- Saudi Arabia 144
- taxonomy 144, 11282
- USSR 5374
- Geometroidea**, distribution, Spain 5391
- Geoplane ventrilineata*
 - New Zealand 7547
 - prey, Gastropoda 7547
- Geotrupes auratus*, morphology, compound eyes 5526
- Geotrupes ibericus*
 - biology, phenology 8398
 - dung, Spain 8398
- Geotrupinae**
 - Papua New Guinea 9332
 - taxonomy 9332
- Gephyraulus**
 - food plants 3975
 - taxonomy 3975
- Geraniaceae**, extracts, repellents, *Leptinotarsa decemlineata* 6922
- Geranial**, pheromones, mites 8945
- Geraniol**, mixtures, attractants, Scarabaeidae 5772
- Geraniums** (see *Pelargonium*)
- α -Geranyl propionate**
 - pheromones, *Quadraspidiotus perniciosus* 11310-11311
 - synthesis 11310-11311
- Geranyllinalool**, toxicity, insects 11042
- Gerbera**
 - Frankliniella occidentalis*, damage 11383
 - Liriomyza trifolii*, Hungary 11782
 - Trialeurodes vaporariorum* 4514
 - Poland 7002
- Gerbera jamesoni*, *Liriomyza trifolii*, damage 5686
- German Democratic Republic**
 - Acyrtosiphon pisum* 641-642, 2826, 5808
 - Agrotis segetum* 877
 - Aleyrodidae 2367
 - Aphididae 775, 8447, 10579, 10832, 11123
 - Aphis armata* 343
 - Aphis fabae* 3237
 - Apion* 481
 - apples
 - arthropod pests 542
 - arthropods 2740
 - aquatic plants, Lepidoptera 4262
 - Argyrops brunnicchi* 6590
 - arthropod pests, monitoring 917
 - barley, pest control 7599
 - beneficial insects 206
 - Brachycaudus semisubterraneus* 4764
 - Callitarea pudibunda* 8821
 - Carabidae 7439
 - Cephalcia abietis* 7904
 - Cerodontha* 397
 - Ceutorhynchus pallidactylus* 605
 - crops, arthropod pests 7550
 - cucumbers, arthropod pests, natural enemies 621
 - Curculionidae 3433
 - Dasineura brassicae* 604
 - Delia coarctata* 386
 - natural enemies 387
 - parasitoids 10568
 - predators 385
 - drinking water, insecticide residues 2061
 - Formicidae 6511
 - fruits, pest control 2690
 - grasslands, Diptera 9613
 - greenhouse crops, pest control 910, 3835, 3865
 - greenhouses, arthropods 11113
 - Hypoaspis* 5268
 - insect pests, development 28
 - insecticides
 - disposal 2062
 - law 2059
 - safety 2060
 - Leptinotarsa decemlineata* 2386
 - Leucoptera malifoliella*, parasitoids 4760

German Democratic Republic cont.

Macrosiphum albifrons, pathogens 10869
Metopolophium dirhodum 372
Myzus persicae 673
Noctuidae 10749
Oscinella frit 3652
Pinus sylvestris, insect pests 7932
Pompilidae 3434
potatoes, insect pests 3906
predatory arthropods 10470
Proctolaelaps pruni 4765
Prunus cerasus, insect pests 11653
rape, insect pests 10765
Rhodobium porosum 1753
Rhopalocera 7438
Scolytus mali 4765
Sitobion avenae 9364
 natural enemies 390
small fruits, arthropod pests 10670
Stigmella malella 559
sugarbeet, pest control 679
Uroleucon doronici 9919
vegetables, pollinators 8661
wheat, insect pests 388
German Federal Republic 1676, 2558
 Acari 1836
 agriculture, reports 8188
 Aleyrodidae, parasitoids 3965, 7004-7005, 11780
 Aphididae 2608, 2706, 3611, 5599, 9656, 9783
 natural enemies 1433
 parasitoids 1281
 predators 2599, 3662, 4653, 8468
 Aphis fabae, predators 683
 Apis mellifera 12004
 apples
 arthropod pests 3799
 pest control 6809
 arable crops, pest control 4160
 Archanara geminipuncta 9520
 arthropod pests, natural enemies 4157
 Atomaria linearis 682
 Auchenorrhyncha 6461
 Bacillus thuringiensis, nontarget effects 6180
 barley, fields, arthropods 2623
 Bradysia paupera 10903
 Carabidae 277, 368
 cauliflowers, insect pests 8674
 Cecidomyiidae 10942
 cereals
 fields, insects 2598
 pest control 8058
 Chaetosiphon fragaefolii 1546
 Chrysomela vigintipunctata 1848
 Chrysopidae 681
 Cicadellidae 3785
 climbers, arthropods 3966
 Coccinellidae 681
 Coleoptera 2597
 crops
 arthropod pests
 natural enemies 6584
 predators 1282
 pest control 10101, 12036
 Cryptococcus fagisuga 1847
 Cynthia cardui 653, 3885
 Delia radicum 3892, 8686
 drinking water, insecticide residues 2056, 6181
 Drosophila subobscura 517
 entomology, conferences 3221
 Epinotia tedella 3024
 equipment
 plant protection
 legislation 11126
 testing 11125
 field crops
 pest control 8055
 books 7260
 fields, beneficial arthropods 6585
 foods, pesticide residues 11015
 forests
 Arachnida 4203
 Coleoptera 2997
 insects 1818, 2996
 invertebrates 1020
 pest control 3995
 Formicidae 5437

German Federal Republic cont.

Frankliniella occidentalis 10899
fumigation, books 1004
Giraudiella inclusa 10541
grapes
 mites 6228
 pest control 5716
grasslands, pollinators 2676
greenhouse crops, pest control 3964
Hylesinus varius, natural enemies 5061
Hylotrupes bajulus 2994
invertebrates 6613
Ips acuminatus 11848
Ips typographus 2995
 ectoparasites 1836
Lepidoptera, parasitoids 4736
Lygus pratensis 3839, 10753
Lymantria dispar, natural enemies 2998
Lymantria monacha 5071
Macrosiphum albifrons 3636
Macrosiphum rosae 9918
Mamestra brassicae 5781
meadows, arthropods 468, 4681
Metopolophium dirhodum, predators 1432
microbial pesticides, legislation 6178-6179
Orchesella cincta 10138
ornamental plants, arthropod pests, natural enemies 11786
Ostrinia nubilalis 10600
Otiorynchus smreczynskii 5070
Oulema lichenis, parasitoids 4632
Panolis flammea, parasitoids 7079
pest control 8070
 apparatus 4159
 equipment 10092
pesticides
 legislation 11127
 uses 5182
Phorodon humuli 351, 1410, 6673
Phragmites australis, insect pests 4682, 10540
Pinus, insecticide residues 10987
plant protection, law 1983
predatory arthropods 680
Pristiphora abietina 8911
Quadraspidiotus perniciosus, parasitoids 7709
radishes, pest control 3893
rape
 Coleoptera 5784
 snails 7776
Reticulitermes flavipes 1910
Rhyncaphytophys platani 5073
Rhynchaenus populicola, parasitoids 3989
Sancassania ultima 1318
Scolytidae, predators 10005
Sitobion avenae 4631
soil
 insecticides, degradation 7219
 pesticides, effects 7220
stored products, pest control 4054
stored products pests, quarantine 3049
sugarbeet
 fields, arthropods 4873
 insect pests 11737
Syrphidae 681
Tephritis conura 10514
Tetranychus urticae 11787
Tettigoniidae 461
Thysanoptera 3836
Uroleucon, parasitoids 1392
Urophora cardui, parasitoids 2566
Varroa jacobsoni 1262
vineyards, Acari 10681
wheat
 fields, arthropods 2616
 insects 2617
Xylocleptes bispinus 1377
Xylosandrus germanus 1909
Ghana
 cocoa
 Homoptera 10875
 research, reports 11273
 insects, pathogens 11903
 Isoptera 2522
 Phenacoccus manihoti, parasitoids 6934

Ghana cont.

Solanum integrifolium, insect pests 9854
Gherkins (see Cucumbers)
Gibberella fujikuroi, vectors, *Frankliniella occidentalis* 9546
Gibberella zeae, toxins, toxicity, Noctuidae 873
Gibberellic acid
 control, *Ceratitis capitata* 8646
 effects, *Tanacetum cinerariifolium* 7576
Gibbopsocus pustulatus (see *Cyrtopsocus pustulatus*)
Gigantomiris, taxonomy, new genus 1810
Gigantomiris jupiter
 Juglans mandschurica, Japan 1810
 taxonomy, new species 1810
Gila cypha, prey, *Anabrus simplex* 7500
Gila robusta, prey, *Anabrus simplex* 7500
Gilletteella cooleyi
 Pseudotsuga menziesii
 British Columbia 5998
 Oregon 1865
Gilpinia daisetusana, *Pinus pumila*, Japan 1860
Gilpinia fennica, *Picea abies*, Sweden 4997
Gilpinia frutetorum
 ecology, population dynamics 5978
 Finland 5977
 heavy metals, residues 5977
 Pinus sylvestris 5977
 Czechoslovakia 5978
Gilpinia hercyniae
 biology, development 5976
 Picea abies 5976
 varietal susceptibility 5058
 simulation models 5058
Gilpinia laricis, pathogens 1826
Gilpinia socia
 heavy metals, pollutants 5056
 Pinus sylvestris 5056
Gilpinia virens
 Finland 5977
 heavy metals, residues 5977
 Pinus sylvestris 5977
Ginger (*Zingiber officinale*)
 arthropod pests
 biology 6233
 control 6233
 damage 6233
 natural enemies 6233
 extracts, toxicity, *Leptinotarsa decemlineata* 9848
 India 346
 insecticides, residues 7572
 Mimegralla coeruleifrons 6670
 India 10526
Ginger repellents, *Delia antiqua* 715
Ginkgo biloba
 extracts
 antifeedants, *Pieris* 8916
 effects, *Helicoverpa assulta* 8786
Ginkgoaceae, *Lymantria dispar* 8866
Giraudiella inclusa
 Archanara geminipuncta, interactions 10540
 biology 4682
 German Federal Republic 4682, 10541
 Phragmites australis
 galls 4682, 10541
 German Federal Republic 10540
Glabromicroplitis croceipes
 attractants 9441
 biology
 behaviour 1297-1298, 2438, 4856, 6546, 7504, 7871, 9441
 oviposition 8375
 reviews 2901
 control
 Heliothis
 evaluation 2901
 reviews 3123
 Noctuidae, evaluation 1970
 fields
 Georgia 4856
 Mississippi 2901
 genetics 1300
 phenotypes 9441
 habitats 7871

***Glabromicroplitis croceipes* cont.**

- hosts
Helicoverpa zea 4856, 8375, 9441
Heliothis 727, 1296
Heliothis virescens 4503, 5475, 6546, 7871
Noctuidae 2901, 10802
insecticides, effects 1299, 4916, 10802
nuclear polyhedrosis viruses, interactions 4503
pathogens 4542
pheromones 1298
physiology 1296
reproduction 11456
rearing techniques 1301
songs 7504
soybeans, fields, South Carolina 10802
tomatoes, fields, North Carolina 727
- Gladiolus*, *Thrips simplex*** 6454
- Gladiolus psitticinnis***, pollination, insecticides, effects 7221
- Gleditsia***, arthropod pests 3035
- Gleditsia triacanthos***
Hemiptera, Ohio 10951
Homadula anisocentra 8902
- Gliocladium virens***, Collembola, interactions 9020
- Gliricidia sepium***, *Azeta versicolor*, Costa Rica 2964
- Glischrochilus quadripunctatus***
attractants 803
Pinus sylvestris, Sweden 803
- Glischrochilus quadrisignatus***
attractants 5725
distribution, Italy 8298
monitoring, traps 5725
Ohio 5725
- Globe artichokes**
arthropod pests
Italy 11637
Sardinia 11620
Heterodispus evansi, Egypt 2577
Noctuidae, Chile 8663
Tydeus artichokei, Egypt 2788
- Globodera rostochiensis***, biological control agents, evaluation 6108
- Globulicaudaphis pakistanica***, distribution, India 2967
- Gloeophyllum trabeum*, *Reticulitermes flavipes***, interactions 11044
- Glomerella cingulata***
hosts, *Orthezia praelonga* 4954
vectors, *Pseudothraupis devastans* 1702
- Glomerella tucumanensis***, insecticides, effects 11194
- Glomeris marginata***
biology 1857
Carpinus betulus, litter, France 1857
ecology, population dynamics 10017
forests, France 10017
- Glomus fasciculatum***
insecticides, effects 11204
Listronotus bonariensis, interactions 10638
- Glucose**
effects, *Anthonomus grandis* 8772
synergism 9660
- Glucosinolates**, effects, *Phyllotreta nemorum* 2784
- Gluta travancoria***, *Pityophthorus glutae* 804
- L-Glutamate**, effects, *Locusta migratoria* 6336
- Glycaspis**
Eucalyptus
host specificity 2960
Queensland 3028
food plants 2961
phylogeny 2959
- Glycaspis constricta***
Eucalyptus stricta, galls 2959
New South Wales 2959
taxonomy, new species 2959
- Glycaspis dulcieana***
Eucalyptus fibrosa, Queensland 3028
taxonomy, new species 3028
- Glycaspis incompta***
Eucalyptus seaana, Queensland 2961
taxonomy, new species 2961

Glycaspis nancyana

- Eucalyptus squamosa*, New South Wales 2959
taxonomy, new species 2959
- Glycaspis rupicolae***
Eucalyptus, New South Wales 2959
taxonomy, new species 2959
- Glyceria borealis***, insecticides, residues 8133
- Glycine**, kairomones, *Ascogaster reticulata* 234
- Glycine max*** (see Soybeans)
- Glycine soja***, Noctuidae, resistance 8714
- Glycosides**, effects, Lepidoptera 2316
- Glycyphagus destructor*** (see *Lepidoglyphus destructor*)
- Glycyphagus domesticus***
cereal grains, UK 8942
man, allergens 8942
stored products, Poland 7092
- Glyphina***
genetics, karyotypes 5000
morphology 5000
Palearctic Region 5000
taxonomy 5000
- Glyphina pseudoschrankiana***
Betula 5000
morphology 5000
- Glyphina schrankiana***
Alnus, Europe 5000
morphology 5000
- Glyphipterix simplicella***
Dactylis glomerata, UK 9620
parasitoids 9620
- Glyphodes pyloalis*** (see *Diaphania pyloalis*)
- Glyphosate**
effects, *Beauveria bassiana* 5110
nontarget effects
Neoplectana feltiae 11940
Pterostichus 9444
- Glypta mutica***
grapes, habitats, New York 11623
hosts, *Polychrosis viteana* 11623
- Glypta zozanae***
biology 1866
forests, Oregon 9976
hosts, *Rhyacionia zozana* 1866, 9976
USA 1866
- Glyptacus glaucae***
Quercus glauca, China 1829
taxonomy, new species 1829
- Glyptapanteles dalosoma***
hosts, *Anacraga* 2444
parasitoids 2444
Ricinus communis, fields, Brazil 2444
taxonomy, new species 2444
- Glyptapanteles porthetriae***
France 4016
hosts, *Lymantria dispar* 4016
- Glyptapanteles vitripennis***
hosts, *Deudorix epijarbus* 3821
pomegranates, orchards, India 3821
- Glyptoteles leucacrinella***
fruit trees, USSR 3779
morphology 3779
taxonomy 3779
- Glyptotendipes pallens***, *Phragmites australis*, Japan 1418
- Gmelina arborea***, *Calopepla leayana*, India 11004
- Gnathonarium exscicatum***
biology, behaviour 3691
prey, Delphacidae 3691
rice, fields, Korea Republic 3691
- Gnathotrichus retusus***
forest trees 11822
pheromones 11822
- Gnathotrichus sulcatus***
forest trees 11822
pheromones 11822
- Gnathotrupes colaphus***
Nectandra 804
taxonomy, new species 804
- Gnathotrupes nectandrae***
Nectandra 804
taxonomy, new species 804
- Gnorimoschema operculella*** (see *Phthorimaea operculella*)
- Gnorimoschemini**
Europe 6285

***Gnorimoschemini* cont.**

- morphology 6285
taxonomy 6285
- Goats**
insecticides
metabolism 11197
residues 6727
toxicity 2048, 9885
- Goetheana parvipennis*** (see *G. shakespearei*)
- Goetheana shakespearei***
biology, development 3807
hosts, *Heliothrips haemorrhoidalis* 3807
- Goleophyllum trabeum***, Isoptera, interactions 9462
- Golf courses**, *Fraus simulans*, Tasmania 9119
- Gomelin** (see *Bacillus thuringiensis*)
- Gomphocerinae**
biology, environmental factors 10642
grasslands, Arizona 10642
physiology, sense organs 6346
- Gonatocerus***
hosts, Hemiptera 8514
rice, fields, India 8514
- Gonia cilipeda***
cotton, fields, USSR 2904
hosts, *Agrotis segetum* 2904
- Gonia crassicornis***
Gramineae, fields, Brazil 5601
hosts, Noctuidae 5601
- Gonia pallens***
Gramineae, fields, Brazil 5601
hosts, Noctuidae 5601
- Gonia picea***
hosts, *Cerapteryx graminis* 1520, 3145
Netherlands 1520, 3145
- Gonioctena decemnotata***
biology 9941
forest trees, China 9941
- Gonioctena fornicata***
biology 5691
control, insecticides 5691
lucerne, USSR 5691
- Gonioctena pallida***, *Prunus padus*, UK 826
- Gonioctena rubripennis***
biology 9941
Padus asiatica, China 9941
- Gonioctena rufipes*** (see *G. decemnotata*)
- Goniphthalmus halli***
fields, India 7878
hosts, *Helicoverpa armigera* 7878
- Goniozus**
Citrus, orchards, India 1584
genetics, polymorphism, models 5591
hosts
Eldana saccharina 5591
Psorosticha zizyphi 1584
- Goniozus legneri***
hosts, Lepidoptera 10435
toxins 10435
- Goniozus natalensis***
control, *Eldana saccharina* 1422
sugarcane, plantations, South Africa 1422
- Goniozus nephantidis***
coconuts, plantations, India 9649
growth regulators, effects 9649
hosts, *Opisina arenosella* 8362, 9649
insecticides, toxicity 8362
- Gonipterus scutellatus***
control, biological control 3129
Italy 3129
- Gonocephalum***, maize, South Africa 9572
- Gonocephalum macleayi***
Cicer arietinum, Queensland 7811
ecology, distribution 7811
sampling 7811
- Gonocephalum rusticum***, genetics, cytogenetics 7394
- Gonocerus juniperi***
parasitoids 5933
Pinus, Italy 5933
- Gonopsis pakistanensis***
grasses, Pakistan 2588
taxonomy, new species 2588
- Gooseberries** (*Ribes grossularia*)
Acari, Switzerland 5700

Gooseberries cont.
arthropod pests
Belgium 10671
German Democratic Republic 10670
Hemiptera, varietal susceptibility 10677
Kessleria rufella, Poland 7442
pest control
Switzerland 5699, 5703, 5708
USSR 484
Polygonia progne, Colorado 1548
Pristiphora pallipes 3763
viruses, vectors, arthropods 5703
Gootiella alba, *Populus alba*, Sweden 11804
Gootiella juniperi, morphology 11804
Gootiella tremulae
forest trees, Sweden 11804
morphology 11804
Gortyna borelii, distribution, Italy 9336
Goryphus
forests, India 10980
hosts, *Pteroma plagiophleps* 10980
Gossypium (see also Cotton)
Gossypium barbadense, *Conotrachelus denieri*, Paraguay 8434
Gossypium darwinii, *Conotrachelus denieri*, Paraguay 8434
Gossypium raimondii, *Conotrachelus denieri*, Paraguay 8434
Gossypium thurberi, *Bucculatrix thurber-iella* 6979
Gossypure
attractants, *Pectinophora gossypiella* 4936
formulations 995
Gossypol
effects
Anthonomus grandis 8772
Helicoverpa armigera 2926
insects 9455
Manduca sexta 10336
mixtures, toxicity, Noctuidae 11158
synergism 11170
toxicity, *Heliothis virescens* 11167, 11170
Gourds, *Fabriciella australis*, damage 1632
Gracillariidae
Africa 3236
crops, Spain 1373
forest trees, New England 4024
phylogeny 5
taxonomy 3236
Graellsia isabellae 1825
biology 1822, 1827
forest trees 1827
Europe 1827
morphology 1825
Spain 1033, 1179
taxonomy 1033
Grain (commodity) (see Cereal grains)
Grain legumes, *Obereopsis brevis*, India 6881
Grain stores
Anisopteromalus calandrae, Georgia 3052
Cheyletus eruditus, Manitoba 1902
Cryptolestes dybasi, South Carolina 3408
predatory mites, Manitoba 11876
Gram (see *Cicer arietinum*)
Gramine
antifeedants
Locusta migratoria 9067
Schizaphis graminum 5609
Gramineae
Aphididae
German Democratic Republic 10579
UK 8443
Aphidinae, India 3436
arthropod pests 11255
Atherigona, Afrotropical Region 6680
Cercopidae, resistance 4679
habitats
Copidosoma graminis, Australia 5583
Diagonogastrea, North America 5584
Staphylinidae, Switzerland 4379
insect pests, Syria 4652
Gramineae cont.
insects, UK 10352
Lepidoptera, USSR 1006
Noctuidae, Australia 5583
Oulema 4267
Papaipema nebris 9549
Pentatomidae, Iran 341
Pyralidae, North America 5584
Rhopalosiphum padi, UK 10959
Graminella barinasensis
grasslands, Venezuela 7673
taxonomy, new species 7673
Graminella nigrifrons
biology 6682
environmental factors 11528
Gramineae 6682, 11528
Grammia blakei
biology 464
monitoring, traps 8532
pastures, Alberta 464, 8532
Grammodes stolidia
biology 4989
food plants 4989
Spain 4989
Granaries (see Grain stores)
Grand fir (see *Abies grandis*)
Grandiella batocerae
Batocera rufomaculata, interactions 2144
India 2144
taxonomy, new species 2144
Grandisol, mixtures, pheromones, *Pity-ophthorus pityographus* 8907
Grandlure (*Anthonomus grandis* sex pheromone)
attractants, *Anthonomus grandis* 4923, 6969, 7866
collection 65
formulations 4923
Granulosis viruses
bioassays 6098
control
Adoxophyes orana 10712
Andraca bipunctata 4958
Cydia pomonella 3798, 4757, 8582
Plutella xylostella 4818
hosts
Agrotis segetum 877, 6098, 10072, 11932
Chilo infuscatellus 4483, 9005
Choristoneura occidentalis 8863
Cydia pomonella 8584
Epinotia pygmaeana 10988
Lepidoptera 3094, 6745, 11098
Mythimna unipuncta 4147
Noctuidae 4148, 6076
Phthorimaea operculella 8936
Pieris rapae 4110, 5112, 6870
cell lines 1957
Plodia interpunctella 10074
Spodoptera frugiperda 6709, 11919
Trichoplusia ni 3853
identification 4148
mixtures, effects, Lepidoptera 9054
physicochemical properties 4110
replication 3853
residues, water 6182
Sturmiopsis inferens, interactions 4483
synergism 4147
Grapefruits (*Citrus paradisi*)
Anastrepha suspensa 3818
Aonidiella aurantii, Israel 7744
Bruchophagus fellis, Queensland 7755
Ceratitis capitata 10722
resistance 8646
Ceroplastes floridensis, Egypt 571
Coccidae, Cuba 9714
commodities
Anastrepha suspensa 5101
Diptera, detection 4080
fumigants, residues 1912
insect pests 1912
insecticides, toxicity 5101
Hemiptera, Cuba 8642, 9712
insecticides, residues 570
mites, Cuba 575
orchards
Coccophagus pulvinariae, Cuba 9714
Galendromus longipilus, Cuba 9722
Hymenoptera, Cuba 9712
Grapefruits cont.
orchards cont.
predatory mites, Cuba 575
Pantomorus cervinus, Florida 10720
Toxoptera aurantii, resistance 3810
Grapes (*Vitis vinifera*)
Acia lineatifrons, South Africa 6788
Amphicerus bicaudatus, Texas 8566
Aphis, Romania 3771
arthropod pests 1537, 9111, 9118
Austria 3765-3767, 6792-6794
control 3765-3767
integrated control 6796
Hungary 8567
Italy 2713, 11635-11637, 11640
Sardinia 11620
Sicily 11655
Switzerland 5714
bibliographies 9111
Bradybaena similaris, Taiwan 10684
Calepitrimerus vitis
resistance 11625
South Africa 9667
Cicadellidae, damage 1549
Coccoidea, Taiwan 3769
diseases, books 9118
Drepanothrips reuteri, damage 10683
Drosophila subobscura, German Fed-eral Republic 517
Empoasca vitis, damage 8549
Eotetranychus carpini 9664
Eotetranychus pruni, USSR 2512
Eotetranychus willamettei, damage 8571
Epiphyas postvittana 1551
Erythroneura, California 5712
Eupoecilia ambiguella 6454
Switzerland 6797
Geina sheppardi, Ontario 9661
habitats, parasitoids, New York 11623
Harrisina brillians, California 5713
Helicococcus bohemicus, Hungary 8568
Hemiberlesia lataniae, Taiwan 9662
Hemiptera
Taiwan 1552
Victoria 2710
insect pests
Italy 2556
monitoring 4238
South Africa 4720
USSR 1550
insecticides
effects 11626
residues 4719, 11629
Lepidoptera, Spain 1373
Lobesia botrana 2715
France 7716
Italy 7742, 8565, 9660
USSR 522, 2708, 2716
Maconellicoccus hirsutus 6457, 6789
India 518, 6790, 8570
mites 9663
damage 11626
Europe, books 6228
Hungary 11625
Italy 5711
Neargyrtis slossonalis, Florida 3976
Nipaeococcus graminis, South Africa 3509
Oides scutellata, India 8574
Otiorynchus sulcatus, California 3770
Panonychus ulmi
German Federal Republic 10681
Italy 520, 9665
Switzerland 4722
pest control 8157, 10685
Australia 9132
Austria 3768
Europe, conferences 6243
German Democratic Republic 2690
German Federal Republic 4159, 5716
Hungary 11631
Israel 4708-4709
Italy 11627
Washington 2709
Planococcus citri, USSR 521
Planococcus minor, India 4717
Polychrosis viteana 8564
New York 9666, 11623
Popillia japonica, Virginia 2714

Grapes cont.

- Pulvinaria*, USSR 514
- Saissetia*, Chile 4780
- Scaphoideus titanus*, Italy 2712
- Scirtothrips citri*, Florida 6795
- Scirtothrips dorsalis*, Japan 10679
- Tetranychidae, Italy 4723, 5715
- Tetranychus urticae*, Switzerland 8575
- Theresimima ampelophaga*
 - economic thresholds 519
 - Israel 2445
- Thrips tabaci*, South Africa 515, 4721
- Thysanoptera, Switzerland 11624
- Tortricidae 5717
- Vitacea polistiformis*, Ohio 11630
- Viteus vitifoliae*
 - damage 8573
 - economic thresholds 516
 - France 8572
 - USSR 11628
 - Victoria 10682
- Xylotrechus pyrrhoderus*, Japan 2711
- Zeuzera coffeae*, Taiwan 4718

Grapes (dried fruit) (see Raisins)

- Grapevine flavescence dorée virus**
 - detection 10680
 - vectors
 - Cicadellidae 10680
 - Euscelidius variegatus* 7717, 7791
 - Scaphoideus titanus* 2712

Graphiphora augur

- biology 509
- food plants, UK 509
- raspberries, UK 510

Graphium sarpedon choredon

- biology, diapause 1151
- New South Wales 1151

Graphocephala atropunctata

- grapes, California 1549
- plant pathogens, transmission 1549

Graphocephala coccinea, lucerne 2382**Graphognathus**

- control, insecticides 1698
- sweet potatoes, Georgia 1698

Graphognathus leucoloma

- biology 5631
- distribution, USA 3738
- lucerne 3738

Grapholita dimorpha (see *Cydia dimorpha*)**Grapholita funebrana** (see *Cydia funebrana*)**Grapholita janthinana** (see *Cydia janthinana*)**Grapholita lobarzewskii** (see *Cydia lobarzewskii*)**Grapholita molesta** (see *Cydia molesta*)**Grapholita prunivora** (see *Cydia prunivora*)**Grapholita prunivorana** (see *Cydia lobarzewskii*)**Graphosoma lineatum**, biology, environmental factors 8272**Graptosaltria nigrofusca**

- Alnus japonica*, Japan 9948
- control, insecticides 10091
- pathogens 9948

Graptostethus servus

- control, cultural control 1657
- sampling 1657
- soyabeans, Nepal 1657

Grasses

- Abacarus hystrix*, South Africa 9525
- Aphididae
 - Spain 10542
 - UK 8443
- arthropod pests 11255
- Bibio xanthopus*, damage 8530
- Cecidomyiidae, India 3731
- Cercopidae 11406
- Chrysoteuchia topiaria*, British Columbia 9658
- Cicadulina*, Nigeria 10636
- Cicadulina mbila* 6455
- Coccoidea, Romania 7311
- Diuraphis noxia* 3658, 4601

Grasses cont.

- food, *Hodotermes mossambicus*,
 - acceptability, models 11601
- Gonopsis pakistanensis*, Pakistan 2588
- habitats
 - predatory arthropods
 - Mississippi 9502
 - Sweden 8472
 - predatory mites, Austria 2741
- Hesperiidae, Japan 6750
- Hodotermes mossambicus*, South Africa 6751
- Indomecus brevimandibularis*, India 11871
- insect pests, natural enemies 11255
- insects, UK 10352
- Lepidoptera 6460
 - USSR 1006
- Melanaphis*, India 3648
- Melanoplus*, Alberta 1221
- Microtermes bharatpurensis*, India 6601
- Miridae, Utah 3729
- Mythimna separata*, India 7653
- Noctuidae, Mississippi 9502
- Oedancala*, America 11591
- Orthoptera, South Carolina 10644
- Oscinella*
 - UK 6758
 - varietal susceptibility 7679
- Oscinella frit*, German Democratic Republic 3652
- Papaipema nebris*, Iowa 8494
- Parapediasia teterrella* 8525
- pest control 1514
- Phyllobius artemisiae* 8527
- pyrethroid insecticides, persistence 3780
- Rhopalosiphum*, Queensland 1429
- Rhopalosiphum padi* 841, 5680
- Scapteriscus vicinus*, Florida 6761
- Sitobion*, Australia 10637
- Spodoptera frugiperda*, resistance 7672
- Spodoptera mauritia* 443
- Tipula*, UK 8524

Grasshoppers (see Orthoptera)**Grasslands**

- Acrididae
 - Arizona 10642
 - Montana 9614
 - Saskatchewan 4438
 - South Dakota 9627
 - USA 3472
 - Wyoming 8660
- Acridoidea, West Africa 7279
- Aphididae, France 10387
- Araneae
 - Switzerland 1517
 - UK 5682
- arthropod pests 11255
- arthropods
 - Colorado 10639
 - insecticides, effects 8535
 - UK 8535
- Ataenius robustus*, Mississippi 10491
- Auchenorrhyncha, UK 9612
- Cerapteryx graminis*, Netherlands 1520
- Cicindela*, Arizona 9622
- Coleoptera, UK 4694
- conferences 8175
- Decticus verrucivorus*, UK 9623
- Diptera, German Democratic Republic 9613
- Drosophila*, Iowa 10992
- Formicidae 2622
- Belgium 9621
- Graminella barinasensis*, Venezuela 7673
- Halictophagus*, Philippines 3732
- Hemiptera, UK 9545, 9611
- Heterocera, UK 9619
- Heterodispus curryi*, Irish Republic 7683
- insects
 - Spain 4452
 - Utah 7670
- invertebrates
 - indicator species, cultural methods 5681
 - Netherlands 5681
- Isoptera, Ghana 2522
- Lasius flavus*, UK 9624-9625

Grasslands cont.

- Lysiphlebus delhiensis*, India 3648
- Magiccada*, Arkansas 5357
- Mesostigmata, Colorado 8533
- pest control
 - Belgium 4236
 - bibliographies 2080
- Pogonomyrmex occidentalis*, Colorado 8326
- pollinators, German Federal Republic 2676
- predatory arthropods, Utah 3729
- soil, *Campodea staphylinas*, UK 3363
- Tettigoniidae, Europe 461
- Tipula*, UK 11595
- Tipulidae, UK 7674
- tropics
 - bibliographies 9114, 12013
 - pest control 9114
- Gratiana spadicea**
 - biology 5908
 - Solanum sisymbriifolium* 5908
- Gravimarmata margarotana**
 - physiology, sex pheromones 5996
 - Pinus sylvestris*, France 5996
- Gravity**, effects, *Drosophila melanogaster* 8279-8281
- Grazing**, grasslands, indicator species 5681
- Greece**
 - Bactrocera oleae* 577, 11670
 - Centaurea solstitialis*, natural enemies 329
 - Ceratitis capitata* 10722
 - Chaetorellia australis* 329
 - Coccinella septempunctata* 5485
 - Coccoidea 2695
 - Coleoptera 4403
 - Cryptostigmata 7034
 - Dryinidae 11450
 - fruits, insecticide residues 9696
 - Monacha cartusiana* 9485
 - Odontofroggata galili* 9699
 - Pachypasa otus* 7321
 - Propomacrus bimucronatus* 7440
 - Pterolonche inspersa* 5558
 - Sesamia nonagrioides* 408
 - parasitoids 8481
 - Tetranychina harti* 3633
 - Thaumetopoea pityocampa* 795, 1795, 3016
 - parasitoids 2993
 - Zygaena* 156, 8301
- Green gram (see Vigna radiata)**
- Greenhouse crops**
 - Acaridae, damage 1606
 - Agromyzidae, Italy 11779
 - Agrotis crassa*, USSR 11603
- Aleyrodidae
 - Canada 9925
 - Denmark 2946
 - German Federal Republic 7004, 11780
- Aphididae
 - China 4921
 - German Democratic Republic 775
 - USSR 213, 6115-6116
- Aphis gossypii* 4967
- arthropod pests 9131
- control
 - biological control 9017, 9019, 9024, 11686, 12026
 - integrated control 10205
 - Czechoslovakia 11686
 - France 10752
 - German Democratic Republic 621, 3835, 3865, 11113
 - German Federal Republic 3964
 - Iraq 5162
 - Israel 10847
 - Norway 10750
 - Scandinavia 6170
 - USSR 12026
- arthropods, Austria 2786
- Belgium, reports 10219
- Bradysia paupera*, German Federal Republic 10903
- Forficula*, USSR 9738
- Frankliniella occidentalis* 10776
- Belgium 7007
- damage 11383
- Denmark 773, 7901

Greenhouse crops cont.
Frankliniella occidentalis cont.
Finland 9486
Israel 4974
Italy 9921
North Carolina 10904
Norway 3960
South Africa 2940
insect pests
control, biological control 4155
Egypt 776
Norway 8810
insecticides, residues 10849
Liriomyza, Netherlands 4536
Liriomyza bryoniae 9850
Liriomyza trifolii 8759
damage 5686
Hungary 11782
Ontario 9055
mites, USSR 588
Myzus persicae 5863
USSR 6122
Noctuidae, Iraq 5163
Pealius azaleae, Czechoslovakia 4272
pest control 2781, 7000, 7446, 9125, 10219
Denmark 2942
Europe 6130
German Democratic Republic 910
German Federal Republic 4159
Italy 3135
models 5862
New Zealand 10844
nontarget effects 9070
Norway 6876, 6944
USSR 1599, 4156, 12028
pesticides, residues 592
Polyphagotarsonemus latus, Italy 5773
research, Netherlands, reports 9131
Scopula minorata ochroleucaria, damage 7892
Spodoptera exigua 10275
Japan 10839
Tapinoma melanocephalum, Florida 4451
Tetranychus, varietal susceptibility 6856
Tetranychus urticae, Italy 7785
Thrips palmi 9728
Japan 4907, 6878
Thrips tabaci
Denmark 622
Finland 5798
USSR 11706
Thysanoptera 3920
British Columbia 3863
Czechoslovakia 7786
German Federal Republic 3836
Netherlands 3862
Switzerland 5774
Trialeurodes vaporariorum
Austria 3915
Japan 4902, 5706
Poland 7002
UK 8761
USSR 326, 587, 624, 723, 729, 3494, 11687
Tyrophagus longior, UK 8812
Zonitoides nitidus, damage 6996
Greenhouses
Aleyrodidae, Norway 10902
Amblyseius barkeri, Denmark 622
Amblyseius mckenziei
Czechoslovakia 7786
USSR 11706
Aphididae, Jordan 10366
Aphis gossypii, phenology 1374
beneficial arthropods 5862
Austria 2786
German Democratic Republic 621, 3835, 3865
Israel 10847
beneficial insects
Hungary 9019
USSR 213
Encarsia, USSR 3494
Encarsia formosa
Austria 3915
Denmark 2946
German Federal Republic 7004, 11780

Greenhouses cont.
Encarsia formosa cont.
Japan 4902
Poland 7002
UK 8761
insecticides, residues 4201
Lepidoptera, Japan 5909
Liriomyza bryoniae, Japan 4839
Neoseiulus cucumeris
British Columbia 3863
Netherlands 3862
parasitoids
Italy 11779
Netherlands 4536
pest control, Netherlands, conferences 4245
Phytoseiidae
German Democratic Republic 11113
Norway 7157
predatory arthropods, German Federal Republic 3964
predatory mites
France 10752
Netherlands 3920
Switzerland 5799
Trialeurodes vaporariorum, parasitoids 5775
Greenidea
Formicidae, interactions 3837
fruit trees, India 3837
morphology, digestive system 9179
taxonomy 9179
Greenidea eugeniae
morphology, digestive system 9179
taxonomy 9179
Greenidea formosana
morphology, digestive system 9179
taxonomy 9179
Greenisca, taxonomy 2937
Gregarina
hosts, *Apis mellifera* 259
Odontotermes formosanus, interactions 5517
Gregarina kylobii, hosts, Curculionidae 1931
Gregarina nymphaeae, hosts, *Galerucella nymphaeae* 8021
Gregarines
hosts
Lepidoptera 6745
Scarabaeidae 3645
Gregopimpla himalayensis
China 1334
hosts, *Dendrolimus tabulaeformis* 1334
Gregopimpla inquisitor
hosts, Lepidoptera 2982
Quercus, forests, Romania 2982
Gregopimpla malacosomae
hosts, Lepidoptera 2982
Quercus, forests, Romania 2982
Grewia asiatica
biology 1573
Bucculatrix univoca, India 1573
Grewia tiliaefolia, insect pests, India 10979
Groundnut oil
control, *Callosobruchus chinensis* 8932
effects
Aphis craccivora 6887
Callosobruchus maculatus 6047
Dermestes maculatus 6017
toxicity
Sitophilus zeamais 7102
Vigna mungo 6887
Groundnuts (*Arachis hypogaea*)
Amsacta albistriga, India 2846
Anarsia ephippias, India 3867
Aphis craccivora 1602, 2828
Aproaerema modicella
India 666, 2847, 6906, 8723
resistance 8719-8720
arthropod pests
Asia 3416
Korea Republic 1720
Zambia 6910
Atactogaster finitimus, India 5829
Caryedon serratus, Congo 5831
Cicadellidae, India 667
Cneorane, India 6909

Groundnuts cont.
commodities
Caryedon serratus 4465, 7993
Coleoptera, German Federal Republic 3049
Corcyra cephalonica 7086
diets, *Helicoverpa armigera* 9360
insect pests 6046, 7094
USA 11895
insecticides, effects 7996
Lepidoptera 11053
Lophocateres pusillus, India 7969
Palembus dermestoides 6026
Termitidae 7095
Cryptozona belangiri, India 3834
diseases, control, insecticides 10809
Dysmicoccus brevipes, yield losses 6907
Elasmopalpus lignosellus
Texas 4868
USA 9816
Enneothrips flavens, Brazil 4867
extracts, phagostimulants, *Elasmopalpus lignosellus* 9812
fields
Araneae
India 8722
Texas 3889
Bracon gelechia, India 8723
Collembola 10598
Crossopalpus, India 667
Microgaster, India 11733
parasitoids, Georgia 4856
predatory insects, Alabama 10810
predatory mites 664
Egypt 662
Helicoverpa armigera, India 8721
Helicoverpa zea, Georgia 4856
Hilda patruelis 6458
Hishimonus sellatus, China 11657
Holotrichia serrata, India 9817
insect pests
Alabama 10810
control, insecticides 3888
India 665, 3888, 9814
Senegal 1671
Texas 3889
varietal susceptibility 6908
insecticides
effects 7808-7809
mixtures, effects 7807
residues 2849
toxicity 2044
Lepidoptera, varietal susceptibility 668
Medythia quaterna, Africa 6456
mites, Egypt 662
Neodontocnemis formosana, China 661
Noctuidae, India 660
nodulation, insecticides, effects 8718
Odontotermes obesus, India 11734
pest control, Zimbabwe 1600
Scarabaeidae
China 4869
India 320
Scopula albiflava, India 11733
Spilosoma obliqua 595, 2782
varietal susceptibility 4841, 10811
Spodoptera litura 6855, 9813, 11501
varietal susceptibility 4842
Tetranychidae 664
Thripidae, Texas 6905
tropics, reports 8154
Groundwater
insecticides
leaching 3196
microbial degradation 2068
movement 10141
pollution, reviews 10142
residues 3154, 5210, 6179, 6182, 6204, 8134, 10143, 10145, 10152-10154, 11228, 11984
determination 10144
pesticides, residues 10606, 12008
Growth regulators
effects, insects 9034
nontarget effects, *Apis mellifera* 12004
Gryllacrididae
distribution, Michigan 1222
fire, effects 7670
grasslands, Utah 7670
monitoring, traps 7670
Gryllidae 2558

- Gryllidae cont.**
 biology, behaviour 5365
 distribution, Michigan 1222
 evolution 4286
 monitoring, traps 3456
 predators 275
 research projects 5423
Rosa canina, galls 2558
 sampling 4612
 soil, Queensland 4612
- Gryllodes sigillatus***
 biology, reproduction 185
 insecticides, effects 11973
 physiology, digestive system 11973
- Grylloidea**
 biology, behaviour 9313
 ecology 1554
 water relations 2330
 Kenya 2330
 orchards, USSR 1554
 physiology, senses 11419
- Gryllonema***, hosts, *Gryllotalpa africana* 6062
- Gryllotalpa africana***
 Asia 6062
 pathogens 6062
- Gryllotalpa australis***
 physiology, sound production 7362
 Victoria 7362
- Gryllotalpa gryllotalpa***
 Egypt 281
 morphology, digestive system 11299
Psammotermes hybostoma, interactions 281
- Gryllotalpidae**
 biology, phenology 4658
 monitoring, traps 3456
- Gryllus**
 control, insecticides 1637-1638
 Florida 6580
 parasitoids 6580
Phaseolus vulgaris, Brazil 1637-1638
- Gryllus bimaculatus***
 biochemistry, polyamines 6350
 biology
 behaviour 127, 9296
 communication 3380
 environmental factors 6443
 genetics, reproduction 3347
 morphology, reproductive organs 3260
 physiology
 circadian rhythm 37, 2245
 endocrine system 91, 96, 2268
 glands 82
 nervous system 1102, 4323
 sense organs 3319, 7361
 senses 10297
 songs 9296
- Gryllus campestris***
 biology, behaviour 187, 3273
 France 187
 physiology
 nervous system 3308, 4323
 senses 10299
- Gryllus domesticus*** (see *Acheta domestica*)
- Gryllus firmus***
 genetics, DNA 6384
 physiology, senses 2252
- Gryllus integer***
 biology, behaviour 6412
 songs 6412
 Texas 6412
- Gryllus pennsylvanicus***, genetics, DNA 6384
- Gryllus rubens***
 biology, reproduction 9189
 Florida 9189
 genetics 9189
 morphology, wings 9189
 physiology, endocrine system 4334
 polymorphism, wings 4334
- Gryon**
 biology, reproduction 6544
 cereals, fields, Iran 3649
Cleome viscosa, habitats, India 5004
 hosts
 Eurygaster integriceps 3649
 Hemiptera 5004
 Pentatomidae 6544
 Riptortus clavatus 8692
- Gryon cont.**
 legumes, fields, Japan 8692
 rearing techniques 6544
 taxonomy 11465
 USSR 11465
- Gryon japonicum***
 hosts, *Riptortus clavatus* 8692
 legumes, fields, Japan 8692
- Gryon pennsylvanicus***
 biology 5449
 hosts, *Anasa tristis* 5449
- Grypotes puncticollis***
 distribution, USA 11794
Pinus 11794
- Guadeloupe**
Acromyrmex octospinosus 3491
Aleurodes, parasitoids 9147
 Diplopoda 1156
 Lepidoptera 3959
- Guam**, *Eupatorium odoratum*, natural enemies 5559
- Guanidine hydrochloride**, effects, insect viruses 6069
- Guar** (see *Cyamopsis tetragonoloba*)
- Guatemala**
Anthonomus eugenii 4906
Apanteles fredii 263
Apis mellifera, ectoparasites 2485
Ceratitis capitata 4364
 predators 6583
Fossispa lutena 4678
Hypothenemus hampei 762, 3950
 Isoptera 10485
Perileucoptera coffeella, parasitoids 765
 Phoridae 10485
Tillancoccus tillandsiae 4965
Vicia faba, insect pests 1636
- Guavas** (*Psidium guajava*)
Aleurodicus dispersus, Papua New Guinea 3826
Anastrepha bistrigata, Brazil 2142
Anastrepha striata, Venezuela 4798
Anastrepha suspensa, Florida 2779
Bactrocera, New South Wales 9644
Bactrocera dorsalis, Hawaii 582, 11615
Ceratitis rosa, Mauritius 9727
Drosicha mangiferae, India 5764
Ferrisia virgata, India 6849
 fields, *Blepyrus insularis*, India 6849
Indarbela, India 3825, 4799
Indarbela quadrinotata, India 5010
Paradasynus rostratus 10742
Planococcus psidii 16
Terminalichus dehlonensis, India 6850
 wood, *Psammotermes hybostoma*, damage 3067
- Guinea**, Coniopterygidae 11384
- Guinea corn** (see *Sorghum*)
- Guineapigs**
 insecticides, effects 2021
 microbial pesticides, effects 11967
- Gustavia superba***, *Entheus priassus*, Panama 10998
- Guyana**, Eriophyidae 11827
- Gymnanthera nitida***, Lepidoptera, Queensland 1393
- Gymnetrinae**
 Japan 4277
 morphology 4277
 taxonomy 3246
- Gymnoclytia***
 hosts, Pentatomidae 9596
 rice, fields, Puerto Rico 9596
- Gymnopleurus***
 morphology 2145
 taxonomy 2145
 Turkey 2145
- Gymnopleurus flagellatus***
 morphology 2145
 taxonomy 2145
 Turkey 2145
- Gymnoscelis rufifasciata***, distribution, Switzerland 142
- Gymnosperma glutinosum***, *Stolas fuscata* 4588
- Gymnosperms**
Melanophila 1821
 Scolytidae, damage 10993
- Gynaephora groenlandica***
 biology, behaviour 9953
- Gynaephora groenlandica* cont.**
Salix arctica, Canada 9953
- Gynaephora qinghaiensis***, morphology 4282
- Gynaikothrips ficorum***
Ficus microcarpa, Israel 1182
 predators 861, 1182
- Gynandrobrotica equestris***
 biology, phenology 9788
 ecology, distribution 9789
Phaseolus vulgaris, Venezuela 9788-9789
 plant pathogens, transmission 11716
Vigna unguiculata, Trinidad and Tobago 11716
- Gynandropsis gynandra***, extracts, toxicity, *Epilachna vigintioctopunctata* 938
- Gyponana geminata***, *Pinus sylvestris*, USA 11794
- Gypsonoma aceriana***
 control, insecticides 5917
Populus canadensis, Netherlands 5917
- Gypsonoma minutana***
 biology 3971
 morphology, developmental stages 3971
Populus 3971
- Gypsophila***, *Liriomyza trifolii* 7893
- Gypsophila paniculata***, *Liriomyza trifolii* 4975
- Gyransoidea tebygi***
 control, *Rastrococcus invadens* 563, 6777
 rearing techniques 6777
 Togo 563, 6777
- Habrobracon hebetor*** (see *Bracon hebetor*)
- Habrocytus conopidarum*** (see *Pteromalus conopidarum*)
- Habrocytus medicaginis*** (see *Pteromalus medicaginis*)
- Habrolepis rouxi***
 hosts, *Aonidiella aurantii* 4779
 oranges, orchards, South Africa 4779
- Hadraule blaisdelli***, fungi 10756
- Hadrobregmus magnus***
Agonis junipera, New Zealand 1335
 parasitoids 1335
- Hadrobregmus pertinax***
 biology 8960
 wood, Italy 8960
- Haedoxan A***, toxicity, insects 10538
- Haedoxans***, synthesis 928, 949
- Haematoloma dorsatum***
 biology, behaviour 10000
 conifers 10000
 damage 5968
- Hafnia alvei***, vectors, *Varroa jacobsoni* 1261
- Hagenius brevistylus***
 biology, behaviour 4476
 Michigan 4476
 prey, *Danaus plexippus* 4476
- Hairy indigo*** (see *Indigofera hirsuta*)
- Haiti**, Tephritidae 3080
- Hakea***, *Dorathymnus aliciae*, Australia 17
- Haldina cordifolia***, insect pests, India 10979
- Halichoerus grypus***, organochlorine insecticides, residues 7206
- Halictidae**, checklists, Italy 2131
- Halictophagus bipunctatus***
 hosts, *Nephotettix virescens* 7654
 rice, fields, India 7654
- Halictophagus libetarioi***
 grasslands, Philippines 3732
 taxonomy, new species 3732
- Halictophagus shepardii***
 grasslands, Philippines 3732
 hosts, *Hecalus viridis* 3732
 taxonomy, new species 3732
- Halictus***, morphology, wings 7316
- Halimococcidae**
 distribution, Pacific Islands 7273
 taxonomy 7273
- Halipidae**, habitats, UK 10351
- Halisidota caryae*** (see *Lophocampa caryae*)
- Halisidota leda***
 Guadeloupe 3959
 pheromones 3959

Halotydeus destructor
lucerne, Australia 6768
pastures, Victoria 6760
Trifolium repens, varietal susceptibility 6774

Haltica quercetorum (see *Altica quercetorum*)

Halticoptera circulus
hosts, *Liriomyza* 6649
weeds, habitats, Florida 6649

Halys dentata, physiology, water relations 4342

Halyzia hauseri
apples, orchards, China 2732
control, plant pathogens 2732

Halyzia sexdecimguttata
biology 1854
morphology 1854
woodlands, UK 1854

Hamamelis vernalis, *Pseudanthonomus helvolus*, Missouri 3958

Hamamelis virginiana
Hormaphis hamamelidis, Virginia 7938
Lophocampa caryae, Virginia 8920
Lymantria dispar, Pennsylvania 8900
Pseudanthonomus helvolus, Missouri 3958

Hamearinae
morphology, legs 1049
phylogeny 1049

Hanseniaspera vineae, vectors, insect pests 566

Hansenula capsulata
Cossonus rotundicollis, interactions 8908
Dendroctonus ponderosae, interactions 8236

Haplidia, taxonomy 5255

Haplocladium microphyllum, *Melaphis rhois* 10522

Haplodiplosis equestris (see *H. marginata*)

Haplodiplosis marginata
biology 5582
cereals, Italy 5582
control 5582
cultural control 4614
wheat, Romania 4614

Haplogonatopus apicalis
biology 436
hosts
Delphacidae 10626
Sogatella furcifera 436
rice, fields, India 10626

Haplogonatopus atratus
biology 4471
overwintering 1491
ecology 3566
hosts
Hemiptera 1491
Laodelphax striatella 4471
Japan 3566
Korea Republic 4471
physiology 3566
rearing techniques 9433
rice, fields, Japan 1491

Haplogonatopus japonicus
China 3513
hosts, Delphacidae 3513

Haplogonatopus orientalis, hosts, *Nilaparvata lugens* 4661

Haplophoria, taxonomy, synonyms, of *Euphoria* 1039

Haplothrips aculeatus
biology 9526
buckwheat, Poland 11534
ecology, population dynamics 11533-11534
sugarcane, Japan 9526
triticale, Poland 11533

Haplothrips cassiae, taxonomy, to *Leptothrips* 3970

Haplothrips ganglbaueri, predators 2468

Haplothrips mali, taxonomy, to *Leptothrips* 3970

Haplothrips nigricornis
biology 2574
Borreria hispida, pollination 2574

Haplothrips tenuipennis
India 6845

Haplothrips tenuipennis cont.
sapodillas, pollination 6845

Haplothrips tritici
control, insecticides 2618
wheat
USSR 2618, 2621, 8464
varietal susceptibility 10572

Hapsifera barbata
Auricularia auricula 11688
insecticides, toxicity 11688

Haptoncus luteolus, *Annona cherimola* × *A. squamosa*, Florida 4804

Haricot beans (see *Phaseolus vulgaris*)

Harmalia anacharsis
natural enemies 1463
rice, Indonesia 1463

Harman, effects, Heliconiini 1097

Harmine
effects
Heliconiini 1097
Trichoplusia ni 9199

Harmonia
Citrus, orchards, USSR 215
control, Aphididae 215

Harmonia axyridis
bamboos, forests, China 8414
biology
behaviour 3803, 9632
phenology 4498
China 4498
control, *Aphis gossypii* 3127, 5874
cotton, fields, China 5874
insecticides, effects 5874
lucerne, fields, Japan 9632
peaches, orchards, Japan 3803
prey
Acyrtosiphon nipponicus 2467
Hemiptera 8414
insects 9632
Myzus persicae 3803

Harmonia conformis
Eucalyptus regnans, forests, Tasmania 10965
prey, *Chrysophtharta bimaculata* 10965

Harmonia dimidiata
apples, orchards, India 1561, 4510
biology 4510
prey
Aphis pomi 1561
Eriosoma lanigerum 4510

Harmonia obscurusignata
bamboos, forests, China 8414
prey, Hemiptera 8414

Harmonia octomaculata
Indonesia 8380
prey
Hemiptera 8514
Heteropsylla 8380
Nilaparvata lugens 4659
rice, fields, India 4659, 8514

Harpagoxenus americanus
Indiana 7475
taxonomy, new species 7475

Harpagoxenus sublaevis, biology, behaviour 4454

Harpalus amputatus
fields, Montana 1525
insecticides, effects 1525
monitoring, traps 1525
prey, legumes, insect pests 1525

Harpalus distinguendus
taxonomy, keys 383
wheat, fields, USSR 383

Harpalus rufipes
biology
behaviour 4623
development 366
cereals, fields, Sweden 4623
German Federal Republic 277
habitats, Sweden 366
molluscicides, effects 277
taxonomy, keys 383
wheat, fields, USSR 383

Harpurostreptus virgatus
diets 2855
vegetables, India 2855

Harrisina, parasitoids 3496

Harrisina brillians
grapes, California 5713
monitoring, traps 5713

Harrisina brillians cont.
pheromones 5713

Harvesting frequency, aubergines, effects, *Leucinodes orbonalis* 733

Hawthorn (see *Crataegus*; *Crataegus laevigata*)

Hay, *Acarus siro* 6494

Hayhurstia atriplicis, distribution, Jordan 5392

Hazelnuts (*Corylus avellana*)
Acari, damage 2694
arthropod pests
biology 7718
control 7718
Italy 7718
Sicily 11655
Curculio nucum, USSR 3773
Lepidoptera, Spain 1373
Myzocallis coryli, Oregon 3772
orchards, *Trioxys pallidus*, Oregon 3772
Taphrocoetes hirtellus 2947

HCH (1,2,3,4,5,6-hexachlorocyclohexane) control
Amsacta albistriga 2846
Anacridium rubripinum 5052
Bagrada hilaris 5795
Cajanus cajan, insect pests 4865
Chaetocnema indica 6748
Drosicha mangiferae 7759
Helicoverpa armigera 7669
Isoptera 863
Leptocoris oratorius 11574
Leucopholis coneophora 5697
Odontotermes obesus 10665
Oryctes rhinoceros 497
Pempherulus affinis 4920
Peridea anceps 3972
Pyrilla perpusilla 11553
rice tungro virus, vectors 9583
degradation, soil 11218
effects
Cajanus cajan 1668
Corcyra cephalonica 7188
legumes 1634
Leucopholis lepidophora 6693
Mus booduga 10128
parasitoids 2846
pearl millet, commodities 10022
plant pathogens 11194
Protozoa 4187

mixtures
control, *Mythimna separata* 7653
effects, groundnuts, commodities 7996
toxicity
Allorhogas pyralophagus 9528
Spodoptera litura 9590

nontarget effects
aubergines 5864
Cicer arietinum 1672

pollutants, marine areas 4213

residues
air 6208
drinking water 7214
fishes 6137
foods 11219
ginger 7572
human milk 2018
mammals 7206
medicinal plants 1407
commodities 4053
nontarget organisms 8092
okras 9757
rice 10607, 11574
safflower 1724
sea water 9093-9094
soil 4671, 5211
vertebrates 11224
Volvariella volvacea 9751

toxicity
Allorhogas pyralophagus 9528
Callosobruchus maculatus 1672
Deporaus marginatus 11674
Leptocoris acuta 11178
Oryctes rhinoceros 497
pearl millet, commodities 11055
rabbits 2042
Spodoptera litura 9590
wheat 11194
commodities 11026

- α -HCH** ((1 α ,2 α ,3 β ,4 α ,5 β ,6 β)-1,2,3,4,5,6-hexachlorocyclohexane)
residues
air 6208
crabs 8108
reservoirs 8141
snow 8140
soil 4671, 11218
water 980
synergism 6165
- β -HCH** ((1 α ,2 β ,3 α ,4 β ,5 α ,6 β)-1,2,3,4,5,6-hexachlorocyclohexane)
nontarget effects, rats 4196
residues
air 6208
foods 11219
reservoirs 8141
soil 4671
- γ -HCH** (see Lindane)
- δ -HCH** ((1 α ,2 α ,3 α ,4 β ,5 α ,6 β)-1,2,3,4,5,6-hexachlorocyclohexane)
residues
air 6208
soil 4671
- HD 1 S 1980** (see *Bacillus thuringiensis*)
- Heard and McDonald Islands**, aquatic insects, catalogues 12031
- Heat resistance**, *Chrysoperla sinica* 1279
- Heat treatment**
control
Bactrocera cucurbitae 4081
Bactrocera dorsalis, models 8963
Dicranognathus nebulosus 3991
fruits, commodities, insect pests 3076
museum specimens, insect pests 11016
Rhyzopertha dominica 8954
Tephritidae 11893
- Heavy metals**
effects
invertebrates, reviews 10155
Lepidoptera 7945
pollutants, Diprionidae 5056
residues, forest pests 9958
- Hecalus viridis**
parasitoids 3732
Philippines 3732
- Hedera helix**
arthropods, German Federal Republic 3966
habitats, arthropods, Berlin 774
Scolytogenes indicus 804
- Hedera taurica**, *Planchonia arabidis*, USSR 782
- Hedgerow plants**
insect pests
control 5570
Italy 5570
Metopolophium festucae, UK 8443
- Hedges**
Macrotermes bellicosus, damage 5523
Neuroptera, Italy 3500
- Hedya nubiferana**
fruits, USSR 528
monitoring, traps 528
- Helenium aromaticum**, extracts, antifeedants, *Spodoptera littoralis* 3150
- Helenium hoopesi**
habitats, predatory arthropods, Arizona 3615
Publilia modesta, Arizona 3615
- Helianthus annuus** (see Sunflowers)
- Helianthus ciliaris**, *Ophraella*, Texas 11509
- Helicidae**, physiology, excretory system 9216
- Heliconiinae**, morphology, wings 5280
- Heliconiini**
alkaloids, effects 1097
Passiflora 1097
physiology, excretion 1097
- Heliconius cydno**
genetics, polymorphism 11352
morphology, colour patterns 11352
- Heliconius ismenius clarescens**
alkaloids, effects 1097
Passiflora 1097
physiology, excretion 1097
- Heliconius melpomene**
genetics, polymorphism 11352
- Heliconius melpomene** cont.
morphology, colour patterns 11352
- Helicosporidium**, hosts, insects 7126
- Helicoverpa**
alkaloids, toxicity 11180
control
biological control 3130
insecticides 3942
cotton
Arizona 7867
New South Wales 3942
- Helicoverpa armigera**
Africa 1323
antifeedants 12012
attractants 3833, 6307
Australia 7184
biology 2848, 3890, 4811, 7120, 9820, 9889, 11735
behaviour 6434
conferences 10215
development 596, 6487
diapause 2309
dispersal 10806
environmental factors 1163, 2325, 8721, 10864
growth 7805
life tables 5361
oviposition 9874
phenology 670, 1675, 5776, 7806
population density 2334
reproduction 9298
cabbages 10059
Cajanus cajan 7805
India 1670, 3887, 3890, 4865, 5816, 5825, 5828, 6902, 7806, 8717, 10806, 11732
Cape Verde 907
cell lines 3449
China 3126, 8037
Cicer arietinum 2854, 3890, 9004
Bangladesh 1675
India 670, 1674, 2850-2853, 3891, 5832, 5834, 7810, 7812-7813, 8726-8727, 9818-9819, 9821, 10812
resistance 10202
varietal susceptibility 1673, 11735
Compositae 2361
control 1671, 2302, 2635, 5878, 7184, 7860, 10215
biological control 173, 907, 11754
cultural control 7797
insecticides 348, 739, 751-752, 1649, 1725, 2662, 3887, 3939, 4865, 4919, 5825, 5832, 5834, 6966-6967, 7669, 7806, 7810, 7813, 7853, 7876, 8726-8727, 9821, 9865, 9877, 10845, 10863, 11773
integrated control 7861
mating disruption 3941
microbial pesticides 741, 2907, 6710, 8053
cotton 2900, 2926
Australia 753
Cameroon 3939
China 1732, 2907, 3932, 4914, 7872, 8776
India 1725, 2911, 4919, 7853, 7876, 8780, 9877, 10863, 11451, 11773
Israel 7860
New South Wales 754
Pakistan 10864
Queensland 9874
Sudan 6966-6967, 7167
Tanzania 751-752, 3936
Thailand 2922, 7881
USSR 173, 739, 741, 3941
varietal susceptibility 7874, 10867
crops
Australia 7861
Cape Verde 151
India 348
diets 79, 2010, 2900, 3890, 5361, 5554, 6216, 9360
distribution
Australia 2361
Norway 4392
ecology 2302
distribution 753
- Helicoverpa armigera** cont.
ecology cont.
population dynamics 4381, 9326
Egypt 9326
field crops
Australia 11164
India 5826
Sahel 9521
USSR 3833
food plants 596, 2848, 4811, 9920
India 5878, 7878, 9820
Israel 2783
France 2309
genetics
chromosomes 8261
genotypes 5341
gossypol, effects 2926
grain legumes, commodities 7120
groundnuts
India 660, 668, 8721
Senegal 1671
growth regulators, toxicity 2007
India 6168, 8053, 11975, 12021
insecticides
pathogenicity 4089, 10078, 10848, 11942
resistance 6168, 7184, 7861, 11164
toxicity 2010, 2854, 8089, 11975, 11987
legumes, resistance 10215
Lycopersicon, varietal susceptibility 2885
maize, Taiwan 2635, 6710
marking 3890
microscopy 6487
monitoring, traps 660, 753-754, 2361, 9889, 10806
morphology 3263
reproductive organs 5279
natural enemies 2455, 3944, 9820, 10059, 11590
reviews 1323
ornamental plants, India 6997
Pakistan 2848, 7532
parasitoids 219, 242, 670, 1280, 2520, 2851, 2886, 3126, 4481, 4530, 5479, 5776, 6529, 7878, 8388, 8776, 9521, 9818, 11451
pathogens 4094, 4102, 4158, 5131, 5622, 5826, 6082, 7881, 8037, 9004, 9007-9008, 11102
peas, India 7797
pheromones 6307, 6434
physiology 2182
nutrition 2900
pheromones 1078
plant density, effects 2852
plant extracts
antifeedants 10537
effects 6216
potatoes, India 2867
predators 2182, 3891, 3932, 7532, 8348
prey, *Agrotis ipsilon* 1675
rearing techniques 5361, 5554, 9360
Romania 4381
sampling 2922, 10812, 11752
sorghum
India 2662, 7668-7669, 11590
resistance 1498
sterols, effects 79
sunflowers, India 9865
taxonomy 3263
tobacco
Italy 9889
Zimbabwe 3944
tomatoes 11752
India 2886, 9852, 10848
New South Wales 10845
Queensland 5776
resistance 1717
USSR 11754
varietal susceptibility 3918
USSR 2455, 3263, 6307
Vigna radiata, India 1649
- Helicoverpa assulta**
biology, phenology 5776
ecology, distribution 3397
food plants, Korea Republic 4898
insecticides, toxicity 10076
parasitoids 5776
plant extracts, effects 8786

Helicoverpa assulta cont.
tobacco 8786
tomatoes, Queensland 5776

Helicoverpa punctigera
Australia 7184
biology
oviposition 9874
phenology 5776
Compositae 2361
control 2302, 7184
insecticides 3942, 10845
cotton
Australia 753
New South Wales 754, 3942
Queensland 9874
distribution, Australia 2361
ecology 2302
distribution 753
genetics
chromosomes 8261
genotypes 5341
insecticides
resistance 7184
toxicity 8073
monitoring, traps 753-754, 2361
parasitoids 5776
predators 3507
tomatoes
New South Wales 10845
Queensland 5776

Helicoverpa zea
allelochemicals, effects 11086
aspartame, effects 10283
attractants 2354
bacteria, extracts, effects 4182
biochemistry 4315
biological control agents, evaluation 1970
biology 222, 2917, 5355
behaviour 2839, 2932, 3303, 4365-4366, 4712, 6410, 8268
development 7702
diapause 4361, 9355
environmental factors 9565
phenology 5882, 6858
broccoli, Virginia 1620
carbohydrates, effects 4366
cell lines 5111
pathogens, development 7146
Colorado 10438
control 915, 2302
cultural control 5168
insecticides 742, 1666, 2924, 3671, 3873, 5886, 6981
sex pheromones 914
cotton 2901, 3938, 11767
Georgia 2924
Louisiana 5882
Mexico 742
resistance 748
South Carolina 6981
Texas 2917, 5886, 9873
USA 2914
crops
Georgia 2932
Mexico 402
diets 4182, 4366, 5355, 6315
distribution, USA 2354
ecology 2302
distribution 3726, 11724
population dynamics 11500
fertilizers, effects 8479, 9548
field crops, California 11500
food plants, Georgia 4856
forecasting 3938
models 11954
growth regulators, effects 10158
identification 6893
insecticides
effects 10802
metabolism 5188
pathogenicity 4130
resistance 11767
toxicity 2914, 11768
kairomones 6234
Lespedeza cuneata, varietal susceptibility 9629
maize 2278
Brazil 3671, 8479, 9548
Missouri 8490
resistance 410, 8500, 9554, 9565

Helicoverpa zea cont.
maize cont.
varietal susceptibility 8492
Mississippi 6891
models 1666
monitoring 5626
traps 2354, 5882
morphology, eggs 6893
mycotoxins
effects 354
toxicity 873, 11158
natural enemies 10802
parasitoids 222, 1620, 2901, 3726, 4856, 6234, 6749, 8337, 8375, 8762, 9441, 9851, 9853, 10282, 10385
insecticides, effects 9851
pathogens 1952, 1956, 5109, 5111, 5130, 5139, 7126, 7139, 8758, 11086
Penicillium, toxicity 4174
Phaseolus vulgaris, Arkansas 3873
pheromones 69, 5882, 6304, 6312, 10276
physiology
diuresis 9268
endocrine system 112, 6304
enzymes 54
immune response 7355
lipids 2278
nervous system 2241-2242, 3303, 9226
nutrition 5294, 6315, 10282, 10385
pheromones 2221, 3291-3292, 8254
sterols 105-106
plant extracts
effects 5192, 10872, 11768
growth regulators 9040
toxicity 332, 7177
predators 7532, 8340, 8492, 9502, 10438
immunoassays 4501
radiation, effects 2932, 4361
roadside plants, Mississippi 9502
sampling 11724
sorghum
Arkansas 3726
South Carolina 455
USA 6749
soyabeans 1666
Florida 6893
Georgia 658
North Carolina 2839, 11724
resistance 657, 7802, 8714
South Carolina 10802
USA 11726
varietal susceptibility 6891, 8715
strawberries, California 4712
Texas 5168, 5626, 9355
tillage, effects 402
tobacco, resistance 758
tomatoes 8758, 9853
California 8762, 9851
interactions 6945
North Carolina 727
varietal susceptibility 7835
Trifolium incarnatum 7702
USA 8268
vegetables, Florida 6858

Heliocarpus appendiculatus
insect pests
damage 10999
Mexico 10999

Heliocheilus albipunctella
control, cultural control 3684
field crops, Sahel 9521
parasitoids 9521
pearl millet, Senegal 3684

Helicoides, toxicity, *Heliothis virescens* 11167

Heliococcus bohemicus, grapes, Hungary 8568

Heliothis
biological control agents, evaluation 1970
control
biological control 3123, 3130
conferences 1015
insecticides 2923, 3934, 3942, 5887, 7877
integrated control 1712

Heliothis cont.
cotton
Arizona 7867
Brazil 9868
India 3934, 7877
Israel 4928, 8781
New South Wales 3942
Paraguay 8782
resistance 1741
South Carolina 5887
USA 2923
varietal susceptibility 7857
food plants, Brazil 8335
groundnuts, Texas 3889
growth regulators, toxicity 8781
insecticides, resistance 4928
North Carolina 1312
parasitoids 727, 1312, 2901, 7873, 8335, 9868
reviews 1296
physiology 1296
predators 3889
tomatoes
Central America 1712
North Carolina 727

Heliothis armigera (see *Helicoverpa armigera*)

Heliothis assulta (see *Helicoverpa assulta*)

Heliothis maritima
lucerne, Japan 1535
morphology 3263
pathogens 1535
taxonomy 3263
USSR 3263

Heliothis nubigera
biology, phenology 1588
monitoring, traps 1588
Spain 1588

Heliothis obsoleta auct. (see *Helicoverpa armigera*)

Heliothis peltigera
food plants, Israel 2783
monitoring, traps 2783
morphology 3263
pathogens 4102
pheromones 2783
taxonomy 3263
USSR 3263

Heliothis phloxiphaga
Castilleja indivisa, Texas 3291
physiology, pheromones 3291

Heliothis punctigera (see *Helicoverpa punctigera*)

Heliothis subflexa
Heliothis virescens, hybridization 8716
insecticides, pathogenicity 4130
monitoring, traps 8554
pathogens 4126
pheromones 8554
Physalis, Florida 8554
physiology, lipids 2278
plant extracts, effects 10872
predators 7532

Heliothis virescens
allelochemicals, toxicity 11167, 11170
antifeedants 12012
Antirrhinum majus, Cuba 10898
attractants 2354
biological control agents, evaluation 1970
biology 222
behaviour 5475, 5883, 8268, 9878
development 5283
diapause 9355
dispersal 10087
environmental factors 9290
phenology 1669, 5882
Cajanus cajan, Puerto Rico 1669
cell lines
bioassays 11167
pathogens 4140
control 915, 2302, 10087
cultural control 1746
genetic control 8716
insecticides 742, 2923-2924, 6981
sex pheromones 914
cotton 2901, 3938, 9876, 11767
Georgia 2924
Louisiana 5882, 8775
Mexico 742
Mississippi 5883, 6968, 9878

***Heliothis virescens* cont.**

- cotton cont.
 - resistance 748, 1739, 4926
 - South Carolina 6981
 - Texas 2915, 2918, 2921
 - USA 2914, 2923, 4927, 8778
- diets 2010, 5475
- distribution, USA 2354
- ecology 2302
 - dispersal 8769
 - population dynamics 11500
- fibre plants, Mississippi 8769
- field crops, California 11500
- food plants, United States Virgin Islands 8716
- forecasting 3938
- genetics, genes, sequences 7232
- growth regulators 11981
 - effects 9034, 10163
- Heliothis subflexa*, hybridization 8716
- identification 6893
- insecticides
 - metabolism 5188
 - pathogenicity 899, 1952, 2203, 4130, 9881, 11928
 - penetration 2930
 - resistance 2914-2916, 2921, 4105, 4927, 6152-6154, 8775, 8778, 11767, 11978
 - toxicity 2010, 3169, 5114, 6155, 11976, 11978
- marking 6498, 9356
- monitoring 5626
 - traps 1669, 2354, 2918, 5882, 6968, 8769, 8775
- morphology
 - eggs 6893
 - sensilla 8235
- mycotoxins, effects 10165
- natural enemies 1295, 4114, 4503
- parasitoids 222, 2901, 3539, 4526, 5283, 5475, 6546, 7871, 8371, 9455, 9853, 9876
- pathogens 4122, 4126
- pheromones 2918, 3290, 5882, 6304-6305, 8235
- physiology
 - cuticle 4308
 - development 1295
 - endocrine system 6304, 7368
 - enzymes 2203, 6305, 7232
 - haemolymph 5309
 - immune response 8371
 - nervous system 6152, 6154, 10295
- plant extracts
 - antifeedants 10159
 - effects 9455, 10872
 - metabolism 5220
 - toxicity 7177
- plant growth regulators, effects 4926
- plant proteins, toxicity 9105
- plants, extracts, effects 4151
- predators 5550, 7532, 9502
- roadside plants, Mississippi 9502
- soyabeans
 - Florida 6893
 - resistance 657
 - varietal susceptibility 8715
- storage 4427
- Texas 5626, 9355
- tobacco
 - Cuba 756, 1746
 - resistance 758
- tomatoes 9853
- USA 8268
- Heliothis virespila***
 - morphology 3263
 - taxonomy 3263
 - USSR 3263
- Heliothis zea* (see *Helicoverpa zea*)**
- Heliothrips***
 - Croton*, Brazil 4521
 - parasitoids 4521
- Heliothrips haemorrhoidalis***
 - avocados, California 3806
 - biological control agents, evaluation 4521
 - biology, development 3807
 - parasitoids 3807
- Helix***, physiology, nervous system 2547

Helix aspersa

- bacteria, symbiosis 9214
- biology
 - behaviour 2548
 - environmental factors 5534
- France 5340
- genetics 307
- Italy 2543
- lead, residues 2545
- morphology 5533
 - spermatozoa 3601
- phenotypes 307
- physiology 10497
 - digestive system 9214
 - endocrine system 4567
 - enzymes 307
 - excretion 9266
 - nervous system 2546, 6339, 6621
 - pheromones 9482
 - reproduction 4566
 - reproductive organs 5535
 - sense organs 9236
 - water relations 5340
- rearing techniques 2543-2544
- UK 2548
- Helix aspersa* var. *maxima***
 - diets 306
 - genetics 307
 - phenotypes 307
 - physiology, enzymes 307
 - rearing techniques 306
- Helix lucorum***
 - biology 6619
 - ecology, bioenergetics 5540
 - food plants 5540
 - Italy 2543
 - lettuces 6619
 - rearing techniques 2543-2544
- Helix pomatia***
 - biochemistry, antigens 7374
 - Italy 2543
 - morphology, spermatozoa 3601
 - physiology, haemolymph 6616
 - rearing techniques 2543-2544
- Helix vittata***, molluscicides, toxicity 6614
- Helleborus***, *Hepialus*, German Federal Republic 11786
- Hellula rogatalis***, broccoli, Virginia 1620
- Hellula undalis***
 - biology 9769
 - environmental factors 4832
- Brassica*, Singapore 7775
- cabbages
 - India 3855
 - Japan 4832
- cauliflowers 9769
- control, insecticides 3855
- Helminth insecticides** (see also Microbial pesticides)
- Helopeltis***, cocoa, Malaysia 7884
- Helopeltis antonii***
 - cashews, India 6799
 - parasitoids 6799
- Helopeltis theobromae***
 - cocoa, Malaysia 761
 - insecticides, pathogenicity 761
- Hemadas nubilipennis***
 - biology
 - behaviour 7723
 - development 5710
 - Ontario 5710
 - Vaccinium angustifolium* 7723
 - galls 5710
- Hemerobiidae**
 - Australia 228
 - distribution, Saudi Arabia 230
 - Papua New Guinea 229
 - taxonomy 228-229
- Hemerobius***, distribution, Canada 6537
- Hemerobius humulinus***
 - maize, fields, Quebec 6714
 - prey, Aphididae 6714
- Hemiberlesia lataniae***
 - avocados, Queensland 7743
 - biology 1552
 - phenology 9662
 - control
 - biological control 7743
 - insecticides 1552
 - Diaspididae, differentiation 11295
 - grapes, Taiwan 1552, 9662

***Hemiberlesia lataniae* cont.**

- kiwifruits, New Zealand 8553
- New Zealand 11295
- parasitoids 9662
- taxonomy 11295
- Hemiberlesia pitysophila***
 - biology 3978
 - China 6114
 - control
 - biological control 6114
 - insecticides 3978
 - natural enemies 3978
 - parasitoids 5951
 - Pinus*, China 3978
 - Pinus luchuensis*, Japan 5951
 - predators 9951
- Hemiberlesia rapax***
 - Diaspididae, differentiation 11295
 - distribution, maps 6456
 - food plants 6456
 - kiwifruits, New Zealand 8553
 - pathogens 5904
 - taxonomy 11295
 - tea, India 5904
- Hemigossypolone**, toxicity, *Heliothis virescens* 11167
- Hemileuca lucina***
 - biology, behaviour 3629
 - Polistes*, interactions 3629
 - Spiraea latifolia*, Massachusetts 3629
- Hemileuca oliviae***
 - biology, environmental factors 8332
 - parasitoids 8332
- Hemineura bigoti***
 - host plants, Spain 8830
 - morphology 8830
- Hemineura francescae***
 - Abies*, France 11003
 - taxonomy, new species 11003
- Hemiptarsenus dropion***
 - greenhouses, Italy 11779
 - hosts, Agromyzidae 11779
- Hemiptarsenus semialbiclava***
 - hosts, *Liriomyza trifolii* 4522
 - insecticides, effects 4522
- Hemiptera** 1696
 - apples
 - orchards, Netherlands 10709
 - Quebec 8612
 - Switzerland 8616
 - apricots, India 11654
 - Arizona 10440
 - biochemistry, proteinases 8224
 - biology 7259, 7268, 9163
 - life cycle 1043
 - Capsicum annum*, fields, California 6642
 - cassava, Trinidad and Tobago 1701
 - Chile 4400, 5231
 - coastal plant communities, Chile 4596
 - cocoa, Brazil 759
 - control 7259, 7586
 - Frankliniella occidentalis* 11786
 - insecticides 3766-3767, 6792-6794, 7877, 10671, 10818
 - cotton, India 7877
 - crops
 - Brazil 7259
 - Victoria 2710
 - dihydropyranes, effects 6956
 - distribution, California 1984
 - ecology, population dynamics 9545, 9611
 - Emex australis*, South Africa 3608
 - forest trees, Solomon Islands 838
 - forests
 - Czechoslovakia 2097
 - USSR 4028
 - grapes, Austria 3765-3767, 6792-6794
 - grasses, Kansas 8528
 - grasslands, UK 9545, 9611
 - groundnuts, Texas 3889
 - Hibiscus*, India 8768
 - insecticides, toxicity 940, 10109
 - Iran 147
 - Italy 3095
 - lucerne, fields, California 6642
 - Mentha asiatica*, USSR 2927
 - monitoring 9611
 - natural enemies 6792
 - North America 9163

Hemiptera *cont.*
oranges, Japan 6828
ornamental plants, habitats, German
Federal Republic 11786
pathogens 3095, 5118
pesticides, effects 6828
pheromones 8161
reviews 7342
Phoetaliotes nebrascensis, interactions
8528
Picea abies, Poland 5986
Pinus banksiana, Ontario 5987
plant extracts, effects 3151
plant pathogens, transmission 1582,
12019
Poland 6857
polymorphism 1043
potatoes, USSR 1696
predators 374, 1696, 3889, 6857, 8328,
10440
prey
Heteropsylla cubana 7031
Lophocampa caryae 8920
rice
damage 7636
Japan 3706
Philippines 5664
rodenticides, toxicity 8124
small fruits, Belgium 10671
Spain 4569
staining 2382
sugarbeet, Italy 10818
sugarcane
America 10549
Pakistan 7586
sunflowers, USSR 3924
Switzerland 374
taxonomy 1000, 9163, 10242
UK 9438
vineyards, Austria 3765
weeds, Wyoming 6654
Ziziphus spina-christi, Egypt 5744
Hemisarcophytes, taxonomy 3228
Hemisarcophytes cooremani
Chilocorus, phoresy 11430
physiology, enzymes 11430
Hemisarcophytes malus
Chilocorus, phoresy 11430
physiology, enzymes 11430
Hemp (*Cannabis sativa*)
Brinckochrysa scelestes 11467
Ostrinia, USSR 4655
Hempa (hexamethylphosphoric triamide)
sterilization, *Sternochetus frigidus*
6387
Henbane mosaic potyvirus, vectors, *Myzus*
persicae 5842
(3Z,6Z)-3,6-Heneicosadiene, mixtures,
attractants, *Panorpa communis* 3793
(3Z,6Z,9Z)-3,6,9-Heneicosadiene,
attractants, *Mocis latipes* 2672
(6Z,9Z)-6,9-Heneicosadiene, attractants,
Mocis latipes 2672
(3Z,6Z,9Z)-3,6,9-Heneicosatriene, mix-
tures, attractants, Noctuidae 11725
(3Z,6Z,9Z)-36,9-Heneicosatriene, mix-
tures, attractants, *Panorpa communis*
3793
(3Z,6Z,9Z)-3,6,9-Heneicosatriene, mix-
tures, pheromones, Lepidoptera 3959
Henosepilachna hirta
biology 3606
Solanum, South Africa 3606
Henosepilachna niponica (see *Epilachna*
niponica)
Henosepilachna vigintioctomaculata (see
Epilachna vigintioctomaculata)
Henosepilachna vigintioctopunctata (see
Epilachna vigintioctopunctata)
Henosepilachna yasutomii (see *Epilachna*
yasutomii)
HEOD (see Dieldrin)
Hepialidae
biology, behaviour 4993, 5366
food plants 5366
Hepialus
control, biological control 3964, 11786
greenhouses, German Federal Republic
3964
Helleborus, German Federal Republic
11786
Hepialus armoricanus, biochemistry,
amino acids 3336
Hepialus behrensii
diets 10381
rearing techniques 10381
Hepialus californicus
diets 10381
rearing techniques 10381
Hepialus gracilis
biology 7023
diets 10381
forest trees, North America 7023
morphology 7023
natural enemies 7023
rearing techniques 10381
Hepialus hecta, biology, behaviour 6423
Hepialus hectorides
diets 10381
rearing techniques 10381
Hepialus humuli
biology, behaviour 6423
diets 10381
rearing techniques 10381
Heptachlor (1,4,5,6,7,8,8-heptachloro-
3a,4,7,7a-tetrahydro-4,7-methano-1H-
indene)
control
Cosmopolites sordidus 4796
Diptera 5606
Iridomyrmex humilis 11280
Isoptera 8394
Leucopholis coneophora 5697
Maladera matrida 3909
effects
Achaea janata 7187
legumes 1634
nontarget effects
man 10137
Tilapia mossambica 8097
pollutants, marine areas 4213
residues
birds 10125
cereal grains 10038
fishes 6137
human milk 2018
man 2019
nontarget organisms 8092
reservoirs 8141
Volvariella volvacea 9751
toxicity
Oryctes rhinoceros 497
rats 7215
Heptachlor epoxide (2,3,4,5,6,7,7-
heptachloro-1a,1b,5,5a,6,6a-hex-
ahydro-2,5-methano-2H-indeno[1,2-
b]oxirene)
nontarget effects, man 960
residues
human milk 2018
nontarget organisms 8092
Volvariella volvacea 9751
Heptachlorepoxyde, toxicity, rats 7215
(Z)-1,12-Heptadecadiene, attractants,
Helicoverpa zea 6312
(Z)-11-Heptadecenyl acetate, pheromones,
Mamestra brassicae 6303
2-Heptanone, attractants, *Rhagoletis*
mendax 508
Heptenophos (7-chlorobicyclo[3.2.0]hepta-
2,6-dien-6-yl dimethyl phosphate)
control
Agrotis 7609
Aphis gossypii 7785
Thysanoptera 4837
nontarget effects, *Pterostichus* 9444
with deltamethrin, control, *Myzus per-*
sicae 5838
Herbicides
control, *Dendroctonus pseudotsugae*
3004
effects
arthropods 2623
Empoasca fabae 4699
maize, insects 1457
predatory insects 2599
predatory mites 3796
insecticides, compatibility 1462
nontarget effects
Aleochara bilineata 1292
Apis mellifera 12004
Araneae 11592
Herbicides *cont.*
nontarget effects *cont.*
beneficial arthropods 4157
insects 10517
testing 4157
with insecticides, synergism 4647
Herbivores
plants
interactions
models 6449
reviews 5173
predators, interactions 7412
Hermetia illucens, *Dysoxylum*
gaudichaudianum, Queensland 1875
Herperidin, mixtures, attractants, *Papilio*
protenor 7750
Herpestomus brunnicornis
hosts, *Yponomeuta malinellus* 2722
orchards, USSR 2722
Hesperiidae
biology, reproduction 6750
British Isles 1003
distribution
Afghanistan 8302
British Columbia 10361
German Democratic Republic 7438
India 7443, 9340
food plants, Japan 6750
Spain 1177
taxonomy 1003
Hesperioidae
distribution, Europe 8276
ecology, conservation 7906
Florida 8171
forest trees, Spain 7906
Spain 2343
Heterachthes martinsi
Quercus, Mexico 2372
taxonomy, new species 2372
Heteracris littoralis
genetics
B chromosomes 1136
chromosomes 6506
Spain 1136, 6506
Heterarthrini
parasitoids 3571
taxonomy 3571
Heterarthrus
food plants 3994
taxonomy 3994
Heterarthrus aceris
Acer, Italy 3994
biology, behaviour 3994
distribution, UK 3987
forest trees 3987
morphology 3994
Heterarthrus leucomelus
Acer, Italy 3994
biology, behaviour 3994
morphology 3994
Heterarthrus microcephalus
biology, behaviour 3994
morphology 3994
Salix, Italy 3994
Heterarthrus nemoratus
Betula, Italy 3994
biology, behaviour 3994
morphology 3994
Heterarthrus ochropodus
biology, behaviour 3994
morphology 3994
haemolymph, cells 3265
Populus, Italy 3994
Heterarthrus vagans
Alnus, Italy 3994
biology, behaviour 3994
morphology 3994
Heterocampa guttivitta
biology, environmental factors 9937
USA 9937
Heterocera
biology, environmental factors 926
checklists, Andorra 4396
distribution, Italy 9336
Europe 9341
evolution 7369
fire, effects 7670
genetics 10273
grasslands
UK 9619
Utah 7670

Heterocera cont.

- Lavandula latifolia*, pollination 9507
- monitoring, traps 926, 7465, 7670, 9341, 9619
- morphology 7369
- pheromones 10273, 11846
- physiology, pheromones 7369
- Platanthera huronensis*, pollination 7889
- Spain 1179, 9507
- UK 926

Heteroceridae

- ecology 5567
- marshes, Italy 5567

Heterocerus fenestratus

- marshes, Italy 5567
- pathogens 5567

Heterococcus

- Romania 7311
- taxonomy 7311

Heterococcus group*, taxonomy 8206**Heterodera glycines*, *Chrysodeixis***

- includens*, interactions 1661

***Heterodera schachtii*, biological control**

- agents, evaluation 6108

***Heteroderes flavonotatus*, maize, South**

- Africa 9574

Heteroderes flavostriatus* (see *H.

- flavonotatus*)

Heterodispus aegyptensis

- Ocimum basilicum*, Egypt 2577
- taxonomy, new species 2577

Heterodispus curryi

- grasslands, Irish Republic 7683
- taxonomy, new species 7683

Heterodispus evansi

- globe artichokes, Egypt 2577
- taxonomy, new species 2577

***Heteromurus nitidus*, morphology, eggs**

- 1045

Heteroneda mimetica

- ornamental plants, habitats, Papua New Guinea 10868
- taxonomy, new species 10868

Heteronychus arator

- control, insecticides 470
- pastures, New Zealand 470

Heteronychus lica

- sugarcane
- Mauritius 11278
- South Africa 1422

Heteronychus lioderes*, rice, India 2657**Heteronygmia dissimilis***

- Khaya nyasica*, Tanzania 10944
- plant extracts, toxicity 10944

Heteropeza pygmaea

- biological control agents, evaluation 8668
- biology 2791
- control 2791
- edible fungi 2791
- mushrooms 7765, 8668
- pathogens 7765

***Heteropneustes fossilis*, insecticides, effects**

- 6194

Heteropoda gourae

- India 3537
- taxonomy, new species 3537

Heteropsylla

- control 8904
- Leucaena*, Indonesia 8380, 8904
- natural enemies 8904
- predators 8380

Heteropsylla cubana

- control
- biological control 7056
- insecticides 813, 825
- distribution, maps 6455, 6458
- Leucaena*
- India 7031
- Indonesia 813
- Leucaena leucocephala* 6455, 6458
- India 7056
- Philippines 820
- tropics 825, 7045
- natural enemies 7031
- parasitoids 7045
- pathogens 820

Heteropsylla incisa* (see *H. cubana*)**Heteroptera***

- biology 9339

Heteroptera cont.

- biology cont.
- development, reviews 4287
- cereal grains, Belgium 11033
- checklists, Nicaragua 5235
- climbers, German Federal Republic 3966
- cotton, Africa 5884
- distribution
- Netherlands 3426, 4415
- Yemen Arab Republic 6476
- Yemen Democratic Republic 6476
- ecology
- habitats 3966
- population dynamics 9545, 9611
- Fagus*, forests, Czechoslovakia 10996
- forests, Finland 4026
- grasslands, UK 9545, 9611
- Illinois 9339
- Iran 147, 175
- morphology 8289
- spermatozoa 2162
- pathogens 7130
- physiology, glands 88
- Picea*, Austria 8910
- prey, stored products pests 11033
- taxonomy 6476, 8289, 9339
- UK 9314
- water, indicator species 9314

Heterorhabditis

- chromosome numbers 1933
- control
- Leptinotarsa decemlineata* 8738
- Otiorynchus sulcatus* 6672
- Scarabaeidae 9626
- culture techniques 1941
- formulations 1934
- fungi, interactions 4127
- genetics, genome analysis 1923
- hosts

- Ascotis selenaria* 10070
- Galleria mellonella* 6087
- Hypothenemus hampei* 4145
- invertebrates 8980
- Maladera matrida* 1764
- Otiorynchus sulcatus* 1941

Heterorhabditis bacteriophora

- biology 9007
- hosts
- Ascotis selenaria* 10070
- insect pests 9007
- pesticides, toxicity 8981

Heterorhabditis heliothidis

- control
- Cyrtotrachelus longimanus* 9518
- Heipalus* 3964, 11786
- Otiorynchus sulcatus* 6672
- Phyllophaga* 1515
- Reticulitermes* 11480
- culture techniques 8024
- hosts
- Agrotis ipsilon* 3669
- Amphibia 8979
- Diabrotica balteata* 9822
- Diptera 7765
- Galleria mellonella* 1935, 4098, 11908, 11911, 11914, 11924
- Megacyllene robiniae* 1853
- Polyphylla fullo* 6776

Heterospilus etiellae

- Crotalaria*, habitats, Puerto Rico 1527
- hosts, *Etiella zinckenella* 1527, 9804
- soyabeans, fields, Puerto Rico 9804

Heterospilus frommeri

- hosts, *Amphicerus cornutus* 3921
- jojoba, habitats, USA 3921
- taxonomy, new species 3921

Heterotergum artemisiae

- Artemisia lavandulacfolia*, China 5948
- taxonomy, new species 5948

Heterotermitinae*, taxonomy 8230**Hevea brasiliensis***

- Asia 3416
- books 2086
- Planococcus tanzaniensis* 16
- Platypus parallelus* 6456

***Hevea pauciflora*, *Oligonychus gossypii*,**

- damage 8815

Hexachlorobutadiene*, control, *Viteus

- vitifoliae* 11628

Hexachloro-1,3-butadiene

- control, *Viteus vitifoliae* 4193
- nontarget effects, reviews 4193
- Hexachloroethane**, effects, rodents 4192
- (10E,12E)-10,12-Hexadecadienal, mixtures, attractants, *Earias* 9879
- (6E,11Z)-6,11-Hexadecadienal, mixtures, pheromones, *Antheraea* 2223
- (10E,12Z)-10,12-Hexadecadienol, pheromones, *Bombyx mori* 5304
- (7Z,11Z)-7,11-Hexadecadien-1-ol, attractants, *Phyllocnistis wampella* 6825
- (10E,12Z)-10,12-Hexadecadienyl acetate, pheromones, *Rondotia menciata* 3781
- (6E,11Z)-6,11-Hexadecadienyl acetate, mixtures, pheromones, *Antheraea* 2223
- 6,11-Hexadecadienyl acetate, pheromones, *Antheraea polyphemus* 2224
- (7Z,11E)-7,11-Hexadecadienyl acetate mixtures
- attractants
- Pectinophora gossypiella* 9879
- Sitotroga cerealella* 7093
- pheromones, *Pectinophora gossypiella* 6435-6436
- pheromones, *Pectinophora gossypiella* 2218
- (7Z,11Z)-7,11-Hexadecadienyl acetate attractants, *Phyllocnistis wampella* 6825
- mixtures, attractants, *Pectinophora gossypiella* 9879
- (7Z, 11Z)-7,11-Hexadecadienyl acetate, mixtures, pheromones, *Pectinophora gossypiella* 6435
- (7Z,11Z)-7,11-Hexadecadienyl acetate, mixtures, pheromones, *Pectinophora gossypiella* 6436
- Hexadecanal**
- mixtures, pheromones, *Scirpophaga incertulas* 3686
- pheromones
- Helicoverpa zea* 69
- Heliothis subflexa* 8554
- (Z)-11-Hexadecanal, pheromones, *Heliothis subflexa* 8554
- (Z)-7-Hexadecanal, pheromones, *Heliothis subflexa* 8554
- (Z)-9-Hexadecanal, pheromones, *Heliothis subflexa* 8554
- Hexadecanol**, pheromones, *Bombyx mori* 5304
- Hexadecan-1-ol acetate**, pheromones, *Heliothis subflexa* 8554
- (10E,12E,14E)-10,12,14-Hexadecatrienal, mixtures, pheromones, *Manduca sexta* 8234
- (10E,12E,14Z)-10,12,14-Hexadecatrienal, mixtures, pheromones, *Manduca sexta* 8234
- (10E,12Z,14E)-10,12,14-Hexadecatrienal, mixtures, pheromones, *Manduca sexta* 8234
- Hexadecenal**, mixtures, pheromones, *Helicoverpa armigera* 6434
- (Z)-11-Hexadecenal
- analogues
- pheromones
- Diatraea grandiosella* 10276
- Helicoverpa zea* 10276
- attractants
- Apamea anceps* 384, 12011
- Helicoverpa armigera* 3941, 6307
- mixtures
- attractants
- Helicoverpa armigera* 3833
- Parapediasia teterrella* 10640
- Plutella xylostella* 4833
- pheromones
- Chrysoteuchia topiaria* 8529
- Helicoverpa armigera* 6434
- Heliothis virescens* 8235
- Scirpophaga incertulas* 3686
- Plutella xylostella* 9767
- pheromones
- Helicoverpa zea* 69, 6312
- Heliothis peltigera* 2783
- Heliothis virescens* 3290
- Lacanobia suasa* 7347

- (**Z**)-11-Hexadecenal *cont.*
pheromones *cont.*
Sesamia nonagrioides 408
Helicoverpa armigera 1078
- (**7Z**,11**Z**)-7,11-Hexadecenal, attractants,
Phyllocnistis wampella 6825
- (**Z**)-7-Hexadecenal
mixtures
attractants, *Earias* 9879
pheromones, *Helicoverpa armigera* 6434
pheromones, *Helicoverpa zea* 69
- (**Z**)-9-Hexadecenal
analogues, pheromones, *Diatraea grandiosella* 10276
attractants, *Helicoverpa armigera* 3941
mixtures
attractants
Helicoverpa armigera 3833
Parapediasia teterrella 10640
pheromones
Chrysoteuchia topiaria 8529
Helicoverpa armigera 6434
Scirpophaga incertulas 3686
pheromones
Helicoverpa armigera 6307
Helicoverpa zea 69
- (**E**)-11-Hexadecen-1-ol acetate
pheromones, Lepidoptera 5299
synthesis 5299
- (**Z**)-11-Hexadecen-1-ol acetate
mixtures, effects, *Cotesia marginiventris* 2473
pheromones, *Heliothis subflexa* 8554
- (**Z**)-7-Hexadecen-1-ol acetate, pheromones,
Heliothis subflexa 8554
- (**Z**)-9-Hexadecen-1-ol acetate, pheromones,
Heliothis subflexa 8554
- (**Z**)-11-Hexadecen-1-ol
mixtures
pheromones, *Heliothis virescens* 8235
Plutella xylostella 9767
pheromones
Helicoverpa zea 69
Heliothis subflexa 8554
Sesamia nonagrioides 408
- (**Z**)-11-Hexadecenol
mixtures
attractants, *Plutella xylostella* 4833
pheromones, *Helicoverpa armigera* 6434
pheromones
Heliothis peltigera 2783
Mamestra brassicae 6303
- (**Z**)-9-Hexadecen-1-ol, pheromones,
Heliothis subflexa 8554
- (**Z**)-11-Hexadecenyl acetate
mixtures
attractants, *Plutella xylostella* 4833
Plutella xylostella 9767
pheromones
Lacanobia suasa 2254, 7347
Mamestra brassicae 6303
Sesamia nonagrioides 408
Spodoptera exempta 409
- (**Z**)-9-Hexadecenyl acetate, pheromones,
Mamestra brassicae 6303
- (**Z**)-13-Hexadecen-11-ynyl acetate
analogues, pheromones, inhibitors,
Thaumetopoea pityocampa 8239
attractants, *Ooencyrtus pityocampae* 5002
mixtures, pheromones, *Thaumetopoea pityocampa* 2211
pheromones
inhibitors, *Thaumetopoea pityocampa* 8872
Thaumetopoea pityocampa 8239
- Hexaflumuron**
effects, *Liriomyza trifolii* 3175
mode of action 11154
- Hexameris**
control, *Agrotis ipsilon* 7862
hosts, *Spodoptera frugiperda* 4634
- Hexameris parastepposis**, hosts, *Hypera postica* 7686
- Hexanal**, attractants, *Anthonomus grandis* 6969
- Hexanoic acid**, attractants, *Delia antiqua* 5855
- 1-Hexanol**
attractants
Anthonomus grandis 6969
Delia antiqua 5855
- Hexavin** (see Carbaryl)
- (**E**)-2-Hexenal, mixtures, pheromones,
Erthesina fullo 7069
- trans-2-Hexen-1-ol**, attractants, *Anthonomus grandis* 6969
- cis-3-Hexen-1-ol**, attractants, *Anthonomus grandis* 6969
- (**E**)-2-Hexen-1-yl acetate, mixtures,
attractants, *Rhagoletis pomonella* 8626
- (**E**)-2-Hexenyl acetate, mixtures, pheromones, *Erthesina fullo* 7069
- Hexomyza salicis**, parasitoids 212
- Hexomyza schineri**, parasitoids 212
- Hexyl acetate**
attractants, *Bruchophagus roddi* 7416
mixtures, attractants, *Rhagoletis pomonella* 8626
- Hexyl butanoate**, mixtures, attractants,
Rhagoletis pomonella 8626
- n-Hexyl butyrate**, mixtures, pheromones,
Campylomma verbasci 8587
- Hexyl propanoate**, mixtures, attractants,
Rhagoletis pomonella 8626
- Hexythiazox** (*trans*-5-(4-chlorophenyl)-*N*-cyclohexyl-4-methyl-2-oxo-3-thiazolidinecarboxamide)
control
Dolichotetranychus floridanus 8657
Panonychus ulmi 11650
Tetranychus urticae 3931
effects, *Amblyseius victoriensis* 8632
mixtures, control, *Oligonychus afra-siaticus* 500
toxicity, *Panonychus ulmi* 2739
- HHDN** (see Aldrin)
- Hibiscus**
Aleyrodidae, Canada 9925
Althaea folkertsii 3607
insect pests, German Federal Republic 11786
Maconellicoccus hirsutus 6457
- Hibiscus cannabinus** (see Kenaf)
- Hibiscus coccineus**
Anthonomus grandis 5879
extracts, effects, *Anthonomus grandis* 5879
- Hibiscus elatus**, habitats, *Typhlodromus alveolaris*, Cuba 9946
- Hibiscus esculentus** (see Okras)
- Hibiscus mutabilis**, *Xanthodes transversa*, Japan 1611
- Hibiscus rosa-sinensis**
Amrasca devastans, varietal susceptibility 7875
Aphididae, China 4921
Dysdercus koenigii (see Roselle)
- Hibiscus sabdariffa** (see Roselle)
- Hibiscus syriacus**
Aphididae, China 749
Aphis gossypii, Japan 1374, 7761
- Hierodula**
India 5494
prey, *Cletus signatus* 5494
- Hieroglyphus annulicornis**, rice, China 3685
- Hieroglyphus banian**
control, insecticides 3713
insecticides, effects 110
physiology, chemical composition 110
predators 3716
rice, India 3713
sorghum, India 3716
- Hieroglyphus nigroripatus**, growth regulators, effects 3210
- Hilbeech** (see Lindane)
- Hilda patruelis**
distribution, maps 6458
food plants 6458
- Hilden** (see Endosulfan)
- Himacerus apterus**, ecology, energetics 3403
- Himatismus**, physiology, cuticle 1076
- Hipparchia fidia**
biology 4689
- Hipparchia fidia** *cont.*
food plants, Spain 4689
parasitoids 4689
- Hipparchia semele**
biology, behaviour 9321
UK 9321
- Hippasa pantherina**
biology, nutrition 8349
India 8349
predators 8349
- Hippodamia**
lentils, fields, USA 5805
prey, *Acyrtosiphon pisum* 5805
sampling 5805
- Hippodamia convergens**
biology 5675
behaviour 3614
California 9399
cold resistance 9399
Epilobium angustifolium, habitats, Washington 3614
Mexico 9176
morphology 9176
parasitoids 6530
pecans, orchards, Georgia 6802
predators 6802
prey
Aphis gossypii 4915
Aphis varians 3614
Schizaphis graminum 5675
Solenopsis invicta, interactions 4915
taxonomy 9176
- Hippodamia koebelei**
Mexico 9176
morphology 9176
taxonomy 9176
- Hippodamia oculata**, morphology, mouth-parts 5452
- Hippodamia tredecimpunctata**
maize, fields, Quebec 6714
prey, Aphididae 6714
- Hippodamia variegata**
biology
behaviour 9875
phenology 4498
China 4498
Cuminum cyminum, fields, India 10529, 11524
habitats, South Africa 5796
Indian mustard, fields, India 8685
parasitoids 6530
prey
Aphididae 5796
Aphis gossypii 9875
Lipaphis erysimi 8685
Myzus persicae 10529, 11524
- Hippomelas jeanae**
forest trees, California 3982
taxonomy, new species 3982
- Hippopsis lemniscata**
morphology 1035
taxonomy 1035
- Hippopsis lemniscata group**
morphology 1035
taxonomy 1035
- Hirmocystis lophocateri**, hosts, *Lophocateres pusillus* 7969
- Hirmocystis minuta**, hosts, *Oryzaephilus mercator* 11046
- Hirmocystis oxecta**, hosts, *Tribolium castaneum* 7969
- Hirmocystis triboli**, hosts, *Tribolium castaneum* 7969
- Hirsutella**, hosts, *Hepialus gracilis* 7023
- Hirsutella citriformis**, hosts, *Heteropsylla cubana* 820
- Hirsutella guyana**, hosts, *Empoasca fabae* 5137
- Hirsutella longicolla**, hosts, *Choristoneura fumiferana* 7144
- Hirsutella longicolla var. cornuta**, hosts, *Choristoneura fumiferana* 7144
- Hirsutella nodulosa**
hosts
Aceria guerreronis 498
Choristoneura fumiferana 7144
- Hirsutella thompsonii**, control, *Aceria guerreronis* 3759
- Hishimonas phycitis**
aubergines 10850
plant pathogens, transmission 10850

- Hishimonus sellatus**
biology 10739, 11657
control, insecticides 10739, 11657
food plants
China 11657
Korea Republic 10739
morphology 11657
plant pathogens, transmission 10739, 11657
- Hispa atra**
distribution, Turkey 9493
food plants 9493
- Hispolepis subfasciata**
control, insecticides 1540
oil palms, Ecuador 1540
parasitoids 1540
- Histeridae**
biology 1005
control 1005
distribution, Europe 7429
prey, timbers, insect pests 5055
soil, Italy 2983
taxonomy 3243, 5055
Turkey 1005
woodlands, Zambia 5055
- Histia rhodope**
Bischopia, China 8435
pathogens 8435
- Histidine**, kairomones, *Ascogaster reticulata* 234
- Histiogaster carpio**
chestnuts, Italy 11632
Cryphonectria parasitica, interactions 11632
- Histiostatidae**, habitats, Hungary 7966
- Hives**, *Galleria mellonella*, China 9472
- Hockeria bifasciata**
Japan 5444
taxonomy 5444
- Hockeria micula**
hosts, *Cydia pomonella* 1555
orchards, USSR 1555
- Hodotermes mossambicus**
biology, behaviour 6751
control, baits 2670, 6751, 11601
ecology, distribution 6599
food, acceptability, models 11601
marking 6599
pastures, South Africa 2670, 11601
savannas, South Africa 6751
South Africa 6599
- Hofmannophila pseudospretella**, molluscicides, effects 3180
- Holarrhena antidysenterica**, extracts, effects, insect pests 7243
- Holcocerus arenicola** var. *insularis*, pathogens 8983
- Holcorthorax testaceipes**
apples, orchards, Connecticut 10705
biology
development 4504
diapause 9408
control, Gracillariidae 10705
hosts
Phyllonorycter 4504
Phyllonorycter blancardella 9408
Ontario 9408
- Holcus lanatus**
habitats, predatory arthropods 8444
Hemiptera, New Zealand 8526
- Holepyris sylvanidis**
biology, phenology 10025
hosts, *Tribolium confusum* 10025
stored products, habitats, Bangladesh 10025
- Hollyhocks** (see *Alcea rosea*)
- Holodiscus discolor**, *Caenoccephus aldrichi*, Oregon 1402
- Holotrichia**
control, insecticides 1689
crops, India 6501
India 12021
potatoes, India 1689
- Holotrichia consanguinea**
crops, India 6501
pathogens 3683
pearl millet 3683
- Holotrichia coriacea** (see *Brahmina coriacea*)
- Holotrichia diomphalia**
pathogens 4858
- Holotrichia diomphalia** cont.
soyabeans, China 4858
- Holotrichia disparilis** (see *Lachnosterna disparilis*)
- Holotrichia formosana** (see *Neodontocnemis formosana*)
- Holotrichia longipennis**
control, insecticides 11743
potatoes, India 11743
- Holotrichia morosa**
pathogens 4858
soyabeans, China 4858
- Holotrichia oblita**, nurseries, China 1873
- Holotrichia serrata**
bacteria, symbiosis 9817
control, insecticides 359
groundnuts, India 9817
mangoes, Bangladesh 1594
pathogens 886
sorghum, India 1499
sugarcane, India 359
- Holy basil** (see *Ocimum sanctum*)
- Homadula anisocentra**
biology, development 8902
control 3035
Gleditsia 3035
Gleditsia triacanthos 8902
Ohio 6313
physiology, pheromones 6313
- Homalodisca coagulata**
control, insecticides 11666
oranges, Florida 11666
plant pathogens, transmission 11666
- Homalotylus flaminus**
Citrus, orchards, Japan 6832
hosts, *Chilocorus kuwanae* 6015, 6832
USSR 6015
- Homidium bromide**, effects, Lepidoptera 9477
- Homidium dimer**, effects, Lepidoptera 9477
- Homoeocerus prominulus**
parasitoids 1289, 5004
Prosopis cineraria, India 5004
- Homoeosoma**
Euphorbia antisiphilitica, India 11519
forest trees, India 8917
- Homoeosoma electellum**
attractants 9863
biology
behaviour 9863
diapause 9289
physiology, ovarian development 9863
plant extracts, effects 9863
sunflowers, pollen, effects 9863
- Homogyne alpina**
extracts
antifeedants, *Spodoptera littoralis* 3150
Peridroma saucia 4599
- Homomanicone**, mixtures, pheromones, *Manica rubida* 1234
- Homona coffearia**
parasitoids 9904
tea, India 9904
- Homona magnanima**
biology, environmental factors 10259
control, mating disruption 5909
Rosa, Japan 5909
- Homoporus febriculosus**
Ammophila arenaria, UK 9620
hosts, *Tetramesa eximia* 9620
- Homoporus subniger**
Dactylis glomerata, habitats, UK 9620
hosts, *Glyptopterix simpliciella* 9620
- Homoptera**
biology, life cycle 1043
Brazil 6525
Cecropia, Ecuador 2952
Citrus, orchards, Ethiopia 1582
cocoa, Brazil 759
control, biological control 7156
Formicidae, interactions 10426
insecticides, effects 10989
monitoring, traps 4859
North America 9164
parasitoids 3515
pathogens 7130
physiology, enzymes 1060
Picea, Austria 10989
polymorphism 1043
predators 3528, 6525, 8895
- Homoptera** cont.
rearing techniques 2769
rice, Philippines 3701
soyabeans, Argentina 4859
symbionts, reviews 2339
taxonomy 9164
- Homotoma ficus**, *Homotoma viridis*, differentiation 9700
- Homotoma viridis**
biology 9700
figs, Italy 9700
Homotoma ficus, differentiation 9700
morphology, nymphs 9700
- Homotomidae**
ecology 10240
morphology 10240
Panama 10240
taxonomy 10240
- Honduras**
Coleoptera 9329
Diaphorina citri 4785
man, pesticide residues 10134
Petrejoides reyesi 2987
sorghum, insect pests 8516
Spodoptera frugiperda 2637
natural enemies 4634
- Honey**
acaricides, residues 2017, 7498
insecticides, residues 962, 7968
pesticides, residues 11210
- Honeydew**
Acyrtosiphon pisum, amino acids 9217
Aphididae, *Limenitis weidemeyerii* 2314
Hemiptera 10976
Homoptera, food, *Euseius* 11452
Icerya seychellarum, mammals 1570
Myzus persicae, kairomones 5863
Saissetia coffeae 4001
Toxoptera odinae, insects 1863
Trioza apicalis, amino acids 9825
- Hong Kong**
foods, insecticide residues 11219
sea water, insecticide residues 9093
- Hoplocampa**
control, insecticides 2690
fruits, German Democratic Republic 2690
- Hoplocampa montanica**, *Amelanchier alnifolia*, Saskatchewan 7721
- Hoplocampa testudinea**
apples
Poland 4759
Quebec 8612
control, insecticides 8612
natural enemies 4759
- Hoplochelus marginalis**
control, microbial pesticides 3645
sugarcane
Mauritius 11278
Reunion 3645
- Hoplodrina ambigua**
biology 1176
distribution, Spain 1176
- Hoplodrina surpresstes**
biology 1176
distribution, Spain 1176
- Hoplophorioninae**, Venezuela 10
- Hops** (*Humulus lupulus*)
arthropod pests, Romania 3640
insect pests
Italy 10220
Yugoslavia 7573
insecticides, residues 9512
Otiorynchus ligustici, Czechoslovakia 1409
Otiorynchus sulcatus, USA 6672
pest control 946
German Federal Republic 4159, 8070
Phorodon humuli
British Isles 2579
German Federal Republic 351, 1410, 6673
USSR 350
Polygonia satyrus, Colorado 1548
- Hordeum distichon** (see Barley)
- Hordeum pusillum**, *Diuraphis noxia* 3658, 4601
- Hordeum vulgare** (see Barley)

- Horismenus elineatus**
 hosts, *Elasmopalpus lignosellus* 4640
 maize, fields, Bolivia 4640
 taxonomy, new species 4640
- Hormaphididae**
 bamboos, Malaysia 9519
Polyrhachis, interactions 9519
- Hormaphidini**, phylogeny 7938
- Hormaphis hamamelidis**
 ecology 7938
 morphology 7938
 trees, Virginia 7938
- Hormonema dematioides**, hosts,
Paradiplosis tumifex 5972
- Horse chestnut** (see *Aesculus hippocastanum*)
- Horse dung**, Scarabaeoidea, Spain 8398
- Horses**
 cholinesterase, insecticides, inhibitors 3193
 enzymes, insecticides, effects 10121
- Horticultural crops**
 entomology 11275
 insect pests, Italy 2556
 pest control 3830
 Kenya 6128
 tropics 10745-10746
 research, Poland, reports 11275
- Horticulture**
 dictionaries 2087
 Poland, reports 8181
- Hospitalitermes umbrinus**, physiology,
 chemical composition 1351
- Host parasite relationships**
 behaviour 5451
 books 6234
 evolution 10445
 functional responses, analysis 3550
 models 269, 279, 4463, 4477, 5591
 population dynamics 1287
 tropics, models 2497
- Hot water treatment**
 control
Anastrepha 11891
Anastrepha suspensa 3079
Bactrocera dorsalis 3078
Curculio 1806
 Tephritidae 3080, 4803, 11892
- House dust**, *Aleuroglyphus*, Egypt 4048
- Households**
Aleuroglyphus, Egypt 4048
 insects, Sri Lanka 2524
Leptocoris trivittatus, USA 7053
Monomorium pharaonis, Czechoslovakia 4457
Ommatoiulus moreleti, Australia 6521
Psammotermes hybostoma, Egypt 3068
- Huckleberries** (see *Gaylussacia*)
- Human milk**
 insecticides, residues 3191, 11219
 pesticides, residues 2018
- Humulus japonicus**, *Hishimonus sellatus*,
 Korea Republic 10739
- Humulus lupulus** (see Hops)
- Hungary**
Agapanthia dahli 4910
Agrotis segetum 8540
 Aleyrodidae 2367
Altica quercetorum 11830
 Anthomyiidae 7831
Apanteles glomeratus group 2508
 Aphididae 8446
Apis mellifera 4461
 apples
 arthropod pests 8596
 mites 8595
 pest control 8591
Athalia glabricollis 615
 Bruchidae 9782
Centaurea, insects 6644
Chromatomyia horticola, parasitoids 9864
 Coccoidea 2695
Coccus hesperidum 9922
 Coleoptera 2368
Colias erate 2370
 Collembola 7016
Corythucha ciliata 5018
Dasineura mali 4739
Dendrolimus pini, natural enemies 8851
- Hungary cont.**
Doclostaurus maroccanus 11418
Drosophila 865
 Ephemeroptera 2369
 Eriophyidae 4422
Etiella zinckenella 1662
 foods
 insecticide residues 5200
 pesticide residues 11014
Frankliniella occidentalis 11383
 fruit trees, insect pests, pathogens 6776
 Geometridae 10277
 grapes
 arthropod pests 8567
 mites 11625
 pest control 11631
 greenhouses, beneficial insects 9019
Helicococcus bohemicus 8568
 insects, nitrogen 7247
 lawns and turf, arthropod pests 8534
 Lepidoptera 6314, 8311
Leptinotarsa decemlineata 4881, 8738
Liriomyza trifolii 11782
Lymantria dispar 11831
 natural enemies 5017
 parasitoids 10002
 Macrolepidoptera 8801
 maize, mites 8486
Mamestra brassicae 8274
 man
 insecticides, effects 11995
 pesticides, effects 4208
 Microlepidoptera 2371
Napomyza gymnostoma 11751
 ornamental plants, arthropod pests 9923
Ostrinia nubilalis 8487
 peas, insect pests 11715
 pest control 8057, 9012
 pesticides
 nontarget effects 5212
 registration 11128
Phyllobius artemisiae 8527
Phyllonorycter 8592
Phyllonorycter gerasimowi 8312
Phytonemus pallidus 11781
 Phytoseiidae 8569
 plant protection, conferences 4600
Psammotettix striatus 10566
Sitophilus zeamais 7982
 soil, arthropod pests 9026
Synanthedon tipuliformis 8560
 Tetranychidae, predators 8594
Tischeria ekebladella 11807
Trialeurodes vaporariorum 9859
Tychius quinquepunctatus 9793
 wheat, Hemiptera 8461
- Hyacinth beans** (see *Lablab purpureus*)
- Hyacinthoides non-scripta**, pollen,
 Formicidae, germination 9924
- Hyadaphis coriandri**, *Coriandrum sativum*, India 7571
- Hyadaphis erysimi** (see *Lipaphis erysimi*)
- Hyadaphis tataricae**
 biology 3962
 control, *Lonicera tatarica* complex 1763
Lonicera, Nebraska 3962
 North America 1763
- Hyalella azteca**
 insecticides
 effects 6199
 residues 965
- Hyalesthes**, taxonomy 9645
- Hyalesthes mlokosiewiczzi**
 apricots, Turkey 9645
 Israel 9645
- Hyalesthes obsoletus**
 food plants, Turkey 9645
 Israel 9645
- Hyalomyodes triangulifera** (see *Strongygaster triangulifera*)
- Hyalophora cecropia**
 biology, development 1808
 immune response 5308
 physiology
 chemical composition 1124
 egg proteins 7331
 enzymes 1065, 2195, 3284
 immune response 9471
 reproduction 1113, 2258
- Hyalophora cecropia cont.**
Prunus serotina 1808
- Hyalopsocus contrarius**, *Pinus sylvestris*,
 Spain 8830
- Hyalopterus**
 Formicidae, interactions 3837
 fruit trees, India 3837
- Hyalopterus arundinis** auct. (see *H. pruni*)
- Hyalopterus pruni**
 biology, phenology 4763
 control, insecticides 2690
 food plants, India 3573
 fruits, German Democratic Republic 2690
 German Democratic Republic 11123
 monitoring, traps 11123
 natural enemies 4763
 parasitoids 3573
 pathogens 3116
Phragmites australis, UK 339
 plums, India 4763
 predators 339
 USSR 3116
- Hyblaea puera**
 biology 5920
 pathogens 1838
Tectona grandis, India 1838, 5920
- Hybotidae**
 distribution, Sweden 6453
 Palaearctic Region, books 5232
 taxonomy 5232
- Hydracarina**, insect growth regulators,
 effects 2755
- Hydradephaga**, bibliographies 6219
- Hydraecia immanis**
 biology, phenology 5624
 forecasting 5624
 maize, USA 5624
 monitoring, traps 5624
- Hydraecia micacea**
 monitoring, traps 913
 Ontario 913
 pheromones 913
- Hydraecia mongoliensis**
 control 5858
 onions, Japan 5858
- Hydramethylnon** (tetrahydro-5,5-dimethyl-2(1*H*)-pyrimidinone [3-[4-(trifluoromethyl)phenyl]-1-[2-[4-(trifluoromethyl)phenyl]ethenyl]-2-propenylidene]hydrazone)
 toxicity
Apis mellifera 11998
 Isoptera 6600
- Hydrellia**
 control 6722
 integrated control 1469
 distribution 7305
 rice
 India 5654, 6736, 9598
 Indonesia 6722
 taxonomy 7305
- Hydrellia chinensis**, taxonomy, synonyms,
 of *Hydrellia griseola* 7305
- Hydrellia griseola**
 control
 insecticides 7645
 integrated control 1469
 distribution, Queensland 7645
 parasitoids 1469, 7645
 rice 7645
 South America 1469
 taxonomy
 synonyms
Hydrellia chinensis 7305
Hydrellia sinica 7305
- Hydrellia pakistanae**
 control, *Hydrilla verticillata*, evaluation 4587
 food plants 4587
- Hydrellia philippina**
 control
 cultural control 7648
 insecticides 7649
 fertilizers, effects 7648
 rice, India 7648-7649
- Hydrellia sinica**, taxonomy, synonyms, of
Hydrellia griseola 7305
- Hydrilla verticillata**
Bagous, India 7557

- Hydrilla verticillata* cont.
biological control agents, evaluation 4587
Parapoynx diminutalis, America 8430
USA 4587
- Hydrogen cyanamide**, mixtures, control, *Panonychus ulmi* 10696
- Hydrogen cyanide**
control
Aonidiella aurantii 7117
stored products pests 870, 11898
- Hydrometra**, checklists, Madagascar 830
- Hydrometra phytophila**
forests, Madagascar 830
taxonomy, new species 830
- Hydronomidius molitor**
biology 11569
morphology 11569
rice 11569
India 2657
- Hydrophilidae**
biology 7306
habitats, North America 7306
taxonomy 7306
- Hydroporidae**, habitats, UK 10351
- Hydroprene** ((2E,4E)-ethyl 3,7,11-trimethyl-2,4-dodecadienoate)
effects
Chrysocoris stollis 989
Hyphantria cunea 4216
Lipaphis erysimi 5218
Nezara viridula 4172
Pyralidae 2071
Scirpophaga incertulas 11177
Spodoptera litura 991
Spodoptera mauritia 11175
toxicity, *Lipaphis erysimi* 9778
- 8-Hydroxycalonectrin**
mixtures, toxicity, Noctuidae 873
toxicity, Noctuidae 873
- 3-Hydroxycarbofuran**, effects, nitrogen fixing bacteria 10136
- 6-Hydroxy-2-cyclohexenone**, effects, *Choristoneura conflictana* 3027
- 7-Hydroxy-4,6-dimethyl-3-nonanone**, attractants, *Lasioderma serricorne* 853
- 6-Hydroxydopamine**, effects, *Acheta domesticus* 9306
- 20-Hydroxyecdysone** (see Ecdysterone)
- 20-hydroxyecdysone** (see Ecdysterone)
- 2-1-(Hydroxy-1-methylethyl)**
tetrahydrofuran, mixtures, pheromones, *Pityophthorus pityographus* 8907
- (4R,5S)-5-Hydroxy-4-methyl-3-heptanone**
pheromones, *Sitophilus* 4052
synthesis 4052
- (4S,5R)-5-Hydroxy-4-methyl-3-heptanone**
pheromones, *Sitophilus* 73, 4052
synthesis 73, 4052
- cis-3-Hydroxy-2,2,6-trimethyltetrahydrofuran**, mixtures, attractants, Scolytidae 10005
- cis-3-Hydroxy-2,2,6-trimethyltetrahydropyran**, mixtures, attractants, Scolytidae 10005
- Hyla regilla*, pathogens 8979
- Hylaphora cecropia*, physiology, cuticle 1091
- Hylastes**
control, insecticides 1804, 10921
forest trees, UK 5034, 10921
- Hylastes brunneus**
attractants 803
Pinus sylvestris, Sweden 803
- Hylastes cunicularius**
attractants 803
Pinus sylvestris, Sweden 803
- Hylastes nigrinus**
plant pathogens, transmission 10923
Pseudotsuga menziesii 10923
- Hylastes opacus**
attractants 803
Pinus sylvestris, Sweden 803
- Hylastes pales**, forest trees, varietal susceptibility 10922
- Hylemya**, *Larix occidentalis*, USA 6011
- Hylemya anthracina** (see *Strobilomyia anthracina*)
- Hylemya antiqua** (see *Delia antiqua*)
- Hyles euphorbiae**
Euphorbia esula 5553
herbicides, effects 5553
- Hylesinus varius**
ecology, population dynamics 5061
Fraxinus, German Federal Republic 5061
natural enemies 5061
- Hylobiinae**, taxonomy 3246
- Hylobius abies**
control, insecticides 10921
forest trees, UK 10921
- Hylobius abietis**
attractants 8825, 8873, 10920
biology 8820
conifers, Sweden 5980, 10920
control 8820
insecticides 1804
ecology 5980
forecasting 10920
forest trees 8825
France 8820
UK 5034
parasitoids 5030
Picea, Czechoslovakia 5030
Pinus sylvestris, Czechoslovakia 8825
Sweden 8873
- Hylobius assimilis**
parasitoids 10984
Pinus
resistance 1787
Wisconsin 10984
- Hylobius pales**
attractants 822, 5949
biology 5949
coniferous forests, Ontario 822
monitoring, traps 822, 5949
North Carolina 1931
parasitoids 10984
pathogens 1931
Pinus, Wisconsin 10984
Pinus sylvestris, Wisconsin 5949
- Hylobius pinastri**
attractants 8873
Sweden 8873
- Hylobius radialis**
attractants 5949, 8896
biology 5949
monitoring, traps 5949, 8896
Pinus, resistance 1787
Pinus sylvestris, Wisconsin 5949, 8896
- Hylobius rhizophagus** (see *H. assimilis*)
- Hylobius warreni**
biology 7924
control 7924
forest trees, British Columbia 7924
- Hylocurus binodatus**, morphology 9962
- Hylocurus carinifrons**
Planera aquatica, Florida 9962
taxonomy, new species 9962
- Hylocurus floridensis**
Planera aquatica, Florida 9962
taxonomy, new species 9962
- Hyloicus pinastri** (see *Sphinx pinastri*)
- Hylotrupes bajulus**
biology 7020, 8960
development 2994
control, insecticides 8957
Pinus, Spain 7020
Pinus sylvestris, German Federal Republic 2994
rearing techniques 7020
wood
Italy 8960
Switzerland 8957
- Hylurgopinus rufipes**
biology, behaviour 8864
control, insecticides 7940
forest trees, Minnesota 8864
pathogens 1852
plant pathogens, transmission 7940
songs 8864
Ulmus americana
Manitoba 1852
Ontario 7940
- Hylurgops palliatus**
attractants 803
distribution, Korea Republic 11380
monitoring, traps 801
Pinus sylvestris, Sweden 801, 803
- Hylurgus ligniperda**, forest trees, Turkey 2950
- Hylurgus micklitzi**, forest trees, Turkey 2950
- Hymenia recurvalis**
biology, reproduction 9747
food plants, Japan 9747
- Hymenoptera**
apples, orchards, Switzerland 2742
apricots, India 11654
bibliographies 5229, 7248, 10169
biochemistry, proteinases 8224
biology 252, 3215, 4254, 10189
behaviour 565, 5451, 9507, 11366, 11518
reviews 5505
environmental factors 6432
reproduction 9014
reviews 8286
sex ratio 10468
books 3215
Brazil 6525
British Isles 6568
Cape Verde 262
cereal grains, Belgium 11033
checklists, Nicaragua 5235
Chile 4400, 5231
China 3627
climbers, German Federal Republic 3966
coastal plant communities, Chile 4596
conifers, Romania 6002
control 7256
arthropod pests 9014
Cyprus 6236
distribution, California 1984
ecology
diversity 2355
habitats 3966
population dynamics 5379
ectoparasites 8374
evolution 4280, 4499-4500, 10189
Ficus ingens 9931
figs
Malaysia 565
pollination 7740
forests
German Federal Republic 1818
Korea Republic 8882
New Zealand 7018
Poland 5067
France 4695
German Federal Republic 5061
hosts
Adosomus 3627
apples, insect pests 2742
Bruchophagus roddi 4695
Chilocorus kuwanae 6832
conifers, insect pests 5985, 6002
fruit trees, insect pests 4728, 4730
Galleria mellonella 253
Hylesinus varius 5061
interactions 252
Lepidoptera 255, 262
Neodiprion sertifer 5006
Oscinella 7679
Oulema lichenis 4632
Pachyonyx quadridens 2976
Rhopalomyia californica 1287
stored products pests 11033
Uraba lugens 8915
India 2976
Indonesia 2355
insecticides, effects 5067
Italy 3095
kale, fields, USA 5789
Lavandula latifolia, pollination 9507, 11518
monitoring, traps 2399, 6568
morphology 2447, 3215, 4254, 4280
wings 7316
nests, preservation 4432
Nicaragua 9454
North America 9437
orchards, USSR 4728, 4730, 5724
ornamental plants, Western Australia 11778
parasitoids 2743, 6002
pathogens 3095, 7130
pecans, orchards, Georgia 3774
pesticides, effects 3765

Hymenoptera *cont.*

- pheromones 8161
- reviews 7341
- phylogeny 2447
- Picea abies*, Poland 5986
- Populus*, Poland 7953
- predators 374, 6525, 8777, 10460
- preparation 10388
- prey, Aphididae 3774
- Quercus*, forests, Poland 7050
- rearing techniques 255
- rodenticides, toxicity 8124
- South Australia 8915
- Spain 4569, 9507, 11518
- stings 4499-4500
- sugarbeet, fields, German Federal Republic 4873
- Sweden 5006
- Switzerland 374
- taxonomy 1000, 3215, 4632, 6236, 6568, 8915, 9437
- keys 4728, 5724
- trapping 2402
- trees, China 5989
- UK 2355, 3215
- USSR 2399, 3460
- books 1010
- Utah 3492
- vineyards, Austria 3765
- weeds, Wyoming 6654
- wheat, fields, German Federal Republic 4632
- Ziziphus spina-christi*, Egypt 5744
- Hypatima mangiferae***
- biology 5767
- mangoes, Kenya 5767
- taxonomy, new species 5767
- Hypaurotis crysalis***
- distribution, Mexico 4005
- Quercus* 4005
- Hypera***
- biology 3993
- Japan 4277
- morphology 4277
- Ulmus davidiana*, China 3993
- Hypera brunniipennis***
- biology, population density 3743
- clovers, Egypt 482
- control, insecticides 8482
- lucerne
- California 11605, 11611
- Michigan 8482
- USA 3743
- pathogens 482
- weeds, interactions 11605
- Hypera brunniipennis* auct. (see *H. postica*)**
- Hypera brunniipennis* auct. (see *H. postica*)**
- Hypera postica***
- Astragalus glycyphyllos* 3737
- biology 4698, 6763
- behaviour 3737
- environmental factors 3394
- phenology 9636
- control 6763
- biological control 9640
- insecticides 476, 8791
- microbial pesticides 5581
- ecology, population dynamics 477
- legumes, Montana 1525
- lucerne
- California 8791, 9640
- India 476-477, 3739, 7697
- Kentucky 2638, 4698, 11610
- Oklahoma 2687, 11606, 11608
- Ontario 9636
- USSR 6763, 7686
- varietal susceptibility 7694
- natural enemies 11608
- parasitoids 3739
- pathogens 6765, 7686, 9636, 11606
- predators 1525
- sampling 2638, 4698
- Hypera punctata***
- lucerne, Ontario 9636
- pathogens 9636
- Hypera rumicis***
- biology, food preferences 6629
- Rumex crispus* 6629
- Hypera transsylvanica***
- biology 6763
- control 6763

Hypera transsylvanica* *cont.

- lucerne, USSR 6763
- Hypera variabilis* (see *H. postica*)**
- Hyperaspis raynevali***
- biology, development 4891
- cassava, fields, Congo 5852
- control, *Phenacoccus manihoti* 5852
- prey, *Phenacoccus manihoti* 4891
- Hyperaspis senegalensis***
- cassava, fields, Congo 5852
- control, *Phenacoccus manihoti* 5852
- Hyperaspis senegalensis hottentotta***
- biology, development 4891
- prey, *Phenacoccus manihoti* 4891
- Hyperaxis fasciata***
- biology 2953
- forest trees, Japan 2953
- Hypericum, Aphis chloris* 3612**
- Hypericum gramineum, Aphis chloris* 3612**
- Hypericum japonicum, Aphis chloris* 3612**
- Hypericum perforatum***
- Australia 3612
- biological control agents, evaluation 3612
- extracts
- toxicity
- Lepidoptera 332
- Manduca sexta* 353
- Tortricidae, USA 3613
- Hypericum sphaerocarpum*, Tortricidae, USA 3613**
- Hyperinae**
- Japan 4277
- morphology 4277
- taxonomy 3246
- Hyperini**
- biology 7461
- Europe 7461
- morphology 7461
- Hyperomyzus lactucae***
- parasitoids 5574
- plant pathogens, transmission 1396
- Hyphaene thebaica*, wood, *Psammotermes* hybostoma, damage 3067**
- Hyphantria cunea***
- apples, USSR 3793
- biochemistry, proteins 11347
- biology 3393, 5960
- environmental factors 2324
- control 5960, 5966
- insecticides 485
- microbial pesticides 9021
- food plants, USSR 485, 9021
- growth regulators, effects 4216
- insecticides, toxicity 7135
- kairomones 7526, 9442
- man, allergies 1235
- parasitoids 4538, 7526, 9442
- pathogens 10064, 11098
- pheromones 2227, 7242
- physiology
- chemical composition 103
- enzymes 2189
- metamorphosis 36
- proteins 9264
- reproduction 4216
- Populus*, Italy 5966
- predators 3793
- saponins, antifeedants 10990
- trees, Italy 5960
- USSR 3393, 4538
- Hyphantrophaga virilis***
- Castanopsis chrysophylla*, forests, Oregon 3998
- hosts, *Phryganidia californica* 3998
- Hypoaspis***
- Central America 11286
- coconuts, plantations, India 6782
- German Democratic Republic 5268
- hosts, *Rhynchophorus ferrugineus* 6782
- taxonomy 5268, 10234, 11286
- Tenebrionidae, phoresy 1171
- USSR 1171
- Hypoaspis aculeifer***
- biology 2472
- development 1311
- prey, *Rhizoglyphus echinopus* 1311, 2472
- Hypoaspis miles* (see *Stratiolaelaps miles*)**
- Hypocaccus*, taxonomy 7307**

***Hypocaccus brasiliensis*, biology 7307**

- Hypocala subsatura***
- biology 342
- control 342
- natural enemies 342
- persimmons, China 342
- Hypocampestris contorticornis* (see *Platy-gaster contorticornis*)**
- Hypodryas gillettii***
- ecology, habitats 1757
- Lonicera involucrata*, North America 1757
- Hypogastrura succinea*, morphology, eggs 1045**
- Hypolimnas misippus*, genetics, polymorphism 7387**
- Hypomeces squamosus***
- Asia 6458
- distribution, maps 6458
- Hypomicrogaster suffolciensis***
- Citrus, orchards, Italy 2765
- hosts, *Archips rosanus* 2765
- Hypopicheyla elongata***
- hosts, *Aradus* 12017
- taxonomy, new species 12017
- USSR 12017
- Hypoponera eduardi***
- France 11042
- morphology, larvae 10399
- Reticulitermes*, interactions 11042
- Hyposoter didymator***
- biology
- behaviour 6546
- development 8386
- hosts
- Heliothis virescens* 6546
- Spodoptera litura* 8386
- Hyposoter exiguae***
- hosts
- Helicoverpa zea* 10282
- Noctuidae 10385
- physiology, nutrition 10282, 10385
- Hyposoter tricoloripes***
- France 4016
- hosts
- Lepidoptera 2982
- Lymantria dispar* 4016
- Quercus*, forests, Romania 2982
- Hypotermes***
- biology 1779
- control 1779
- trees, India 1779
- Hypothenemus***
- control, insecticides 1638
- Phaseolus vulgaris*, Brazil 1638
- Hypothenemus eruditus*, taxonomy, synonyms, *Hypothenemus pusillus* 804**
- Hypothenemus fuscicollis*, taxonomy, synonyms, *Stephanoderes sundaensis* 804**
- Hypothenemus hampei***
- biological control agents, evaluation 6986
- biology 763
- environmental factors 9896
- coffee 6987
- Africa 6986
- Brazil 4951
- El Salvador 763
- Guatemala 762, 3950
- Indonesia 8795
- Mexico 767-768
- New Caledonia 4955, 10877
- control 8795
- biological control, reviews 6987
- insecticides 762
- ecology, distribution 767
- insecticides
- pathogenicity 4145
- resistance 4955, 10877
- toxicity 764
- natural enemies 6987
- parasitoids 4951, 6986
- pathogens 6684
- sampling 768
- Hypothenemus pusillus*, taxonomy, synonyms, of *Hypothenemus eruditus* 804**
- Hypsicera***
- Europe 3563
- taxonomy 3563
- Hypsicera curvator*, hosts, Lepidoptera 3563**

- Hyptis suaveolens*, *Drepanocassis profana*, Brazil 5562
- Hyssopus officinalis*, *Autographa gamma*, UK 8808
- Hyssopus thymus*
Arctium minus, habitats, Ohio 3619
hosts, *Metzneria lappella* 3619
- Hysteronura setariae*
biology, phenology 4676
monitoring, traps 4676
sorghum, Venezuela 4676
- IBP** (see Iprobenfos)
- Icerya pattersoni*, coconuts, Nigeria 2700
- Icerya purchasi*
Acacia baileyana, South Australia 5942
- Citrus**
California 2767
Italy 9016
- control
biological control 2767, 9016
microbial pesticides 1870
forest trees, China 1870
morphology, size 8640
natural enemies 5942
parasitoids 8640
Pittosporum tobira, California 8640
predators 10452
- Icerya seychellarum*
figs, Seychelles 1570
mammals, interactions 1570
- Ichneumon deliratorius cinctitarsis*
hosts, *Mythimna unipuncta* 6536
Quebec 6536
- Ichneumon feralis*
forests, North America 7023
hosts, *Hepialus gracilis* 7023
- Ichneumonidae** 2558
Ammi visnaga, habitats, California 6642
biology 8051
behaviour 3872
environmental factors 6441
checklists, Poland 2440
coconuts, plantations, India 9650
distribution 9429
ecology 2440
Europe 1028
evolution 2154, 4280
forests
Czechoslovakia 2097
India 10980
USSR 4029
- hosts 243
arthropod pests 8051
Geometridae 4029
Lepidoptera 2154, 3872
Ochropleura fennica 10925
Opisina arenosella 9650
Panolis flammea 3011
Pikonema alaskensis 6441
Pteroma plagiophleps 10980
Spodoptera frugiperda 8478
- Japan 243
maize, fields, Brazil 8478
morphology 4280
orchards, USSR 2727, 5724
Pinus, forests, UK 3011
Pinus koraiensis, forests, China 10939
Rosa canina, galls 2558
taxonomy 1028
keys 5724
USSR, taxonomy 2727
Vicia faba, fields, Massachusetts 3872
- Ichneumoninae**
biology 7505
distribution
Australia 241
India 241
evolution 2154
forests, USSR 4029
hosts
Geometridae 4029
Lepidoptera 2154
Spain 7505
taxonomy 241
- Ichneumonnoidea**
hosts
Pissodes nitidus 10939
Tenthredinoidea 3571
orchards, USSR 5724
- Ichneumonnoidea cont.**
taxonomy, keys 1010, 5724
- Iconella etielli**
Crotalaria, habitats, Puerto Rico 1527
hosts, *Etiella zinckenella* 9804
soyabeans, fields, Puerto Rico 9804
- Ictalurus punctatus*, prey, *Anabrus simplex* 7500
- Idaethina*, taxonomy 11806
- Idaethina froggatti*
Brachychiton populneus, New South Wales 11806
taxonomy, new species 11806
- Idaethina ursula*
Proteaceae, Queensland 11806
taxonomy, new species 11806
- Idarnes**
biology, behaviour 1572
figs 1572
parasitoids 1572
- Identification services**, arthropods, Spain 4569
- Idiococcophilus**
taxonomy
new genus 1419
synonyms, of *Ectroma* 4540
- Idiococcophilus japonicus*
hosts, *Idiococcus bambusae* 1419
Japan 1419
taxonomy
new species 1419
to *Ectroma* 4540
- Idiococcus bambusae*
parasitoids 1419
Pleioblastus variegatus, Japan 1419
- Idioscopus**
control, insecticides 6851
mangoes
Bangladesh 1594
India 6851
- Idioscopus clypealis*
biology 9733
environmental factors 2780
control, insecticides 5769, 11675, 11677
mangoes 9733
India 11675, 11677
Pakistan 5769
Philippines 2780
monitoring, traps 2780
natural enemies 9733
parasitoids 11677
- Idioscopus niveosparsus*
biology 9733
environmental factors 2780
mangoes 9733
Philippines 2780
monitoring, traps 2780
natural enemies 9733
- Ilex attenuata*, *Megastigmus floridanus*, Florida 7074
- Ilex cornuta*, *Lepidosaphes camelliae*, Georgia 4968
- Ilex crenata*, *Texocoris nigrellus*, USA 2939
- Ilex mitis*, *Eriophyes mitis*, South Africa 9674
- Ilex opaca**
Asphondylia ilicicola, Maryland 11007
Lymantria dispar, allelochemicals 8888
Megastigmus floridanus, Maryland 4969, 7074
Oligonychus ilicis 10990
Phytomyza ilicicola 1769
- Imidazole**, effects, *Drosophila melanogaster* 11303
- Immune response**, diagnosis 7152
- Impaction**, control, stored products pests 5086
- Imparipes gshishinae**
Imparipes taurensis, differentiation 9542
taxonomy, new species 9542
wheat, USSR 9542
- Imparipes taurensis*, *Imparipes gshishinae*, differentiation 9542
- Inachis io**
pathogens 11102
physiology, diapause 38-39
- Incisitermes snyderi**
biology, behaviour 3576
buildings, Florida 3576
- Indarbela**
control, insecticides 3825
guavas, India 3825, 4799
pathogens 4799
- Indarbela quadrinotata**
apricots, India 11654
control 11654
insecticides 5010
food plants, India 5010
- India**
Acari 2144
Aceria cajani 6901
Achaea janata 1721
natural enemies 8765
Achatina fulica 5536, 11499
Achelura bifasciata 3775
Acrididae 6271, 9279
Aculops dilleniae 6269
Adelges knucheli, predators 8917
Aeliomorpha coimbatorensis 3244
Agalope hyalina, parasitoids 11639
Agaricus bisporus, arthropod pests 8159
Agraphopus, ectoparasites 4685
agricultural entomology, bibliographies 7249
agriculture, reports 7288-7291
Agriotes, predators 4853
Agrotis 2865
Agrotis ipsilon 9828
air, insecticide residues 6208
Alcides morio 1406
Aleurocanthus indicus 10511
Aleurocanthus woglumi 4786, 8648
Aleurolobus barodensis 5586
Aleyrodidae 9154
natural enemies 4782
Amrasca biguttula 2793, 8669, 9756
Amrasca devastans 3840, 7842, 11771, 11774
Amrasca splendens 7760
Amsacta albistriga, parasitoids 2846
Amsacta moorei 11718
Anacridium rubripinum 5052
Anarsia ephippias 3867
Antheraea 9473
Antheraea assamensis, parasitoids 4557
Antheraea mylitta 10958, 10986
natural enemies 7541
Antheraea paphia 10490
Antigastra catalaunalis 6951, 11764
parasitoids 8766, 11765
Aonidiella aurantii 781
natural enemies 11664
Aphididae 1189, 1686, 2966, 3350, 3353, 3437, 3746, 6059, 7815, 9777, 11290
parasitoids 3573, 3648, 9740, 10981
predators 2810, 3754, 5496, 9776
- Aphidinae 3436
Aphidius matricariae, hosts 5480
Aphis craccivora 672
predators 6889
Aphis gossypii 1603, 6918
parasitoids 5597
Aphis paraverbasci 3957
Aphis pomi, natural enemies 1561
Aphis spiraeicola, predators 8432
Apis cerana, ectoparasites 3493
Apis florea 5438
ectoparasites 1251
apricots, insect pests 11654
Aproaerema modicella 666, 2847, 6906, 8719-8720
natural enemies 8723
Araneae 8349, 8722
predators 7514
Asphondylia 7567
Asphondylia riveae, parasitoids 2576
Aspidiotus destructor 10666
Atactogaster finitimus 5829
Athalia 10236
Atherigona 414-416, 11552, 11554
Atherigona approximata 5632
Atherigona soccata 459-460, 1495, 7664, 7666, 11585, 11589
Attacus atlas 5903
aubergines
arthropods 6946
insect pests 6947, 11757-11759

India cont.

aubergines cont.
insecticide residues 7841, 7843-7844, 11760, 11762
insecticides, effects 5864
insects, predators 3504
pest control 7840
Auchenorrhyncha 5648
Aulacophora foveicollis 1631, 11709
Azolla, pest control 6669
Bagous 7557
Bagrada hilaris 5795
bamboos, insect pests 1416
Bemisia tabaci 1648, 2817, 4088, 8773, 9870, 10786
parasitoids 6533
Bissetia steniella 1423
parasitoids 6686
Bombyx mori 9676
parasitoids 6532, 10492
pathogens 6607
predators 7084
Brachycaudus helichrysi 1387
Bradysia tritici 599
Brassica, insecticide residues 10760
Brevicoryne brassicae 4827
predators 8683, 10772
broad bean bushy dwarf virus, vectors 5803
Bruchidae 7997
Bruchidius sparsemaculatus 3980
Buzura suppressaria 5901
cabbages, Lepidoptera 2805
Cajanus cajan
insect pests 3887, 4865, 5816, 5825, 5828, 6902, 7806
pest control 6900
Callaphis juglandis, parasitoids 10686
Callopietria floridensis 3961
Callosobruchus chinensis 11887-11888
Callosobruchus maculatus 10047
Calocoris angustatus 3722, 3727, 5674, 9605
Camponotus sericeus 5436
Capsicum annuum
arthropod pests 735
insect pests 2892
Carpomyia vesuviana 3013, 8637
parasitoids 6847
Caryedon bahuinidus 6270
Caryedon serratus 10049
cauliflowers, insecticide residues 3856, 11697
Cavelerius sweeti 4606, 4610
Cecidomyiidae 3731
Ceroplastes floridensis 10532
Ceroplastodes 7685
Ceroisterna scabrator 1782
Chaetocnema indica 6748, 7667
Chalybion bengalense, parasitoids 10457
Chilo, parasitoids 334
Chilo auricilius 5585
parasitoids 2592, 8452
Chilo partellus 456, 458, 3719, 3721, 5677, 6746, 7663, 7665, 8522, 9604, 11587-11588
parasitoids 2663, 8520
Chloropulvinaria polygonata 11678
Chromatomyia horticola 6871
parasitoids 7789
Chrysocoris purpurea 2207
Chrysodeixis eriosoma, parasitoids 10773
Chrysomelidae 6267
pathogens 11004
Chrysopidae 1338
Cicadellidae 2887, 5865, 6884
predators 667
Cicer arietinum
insect pests 669, 2853, 5833
natural enemies 2851
insecticide residues 671, 11736
Cicindelidae 266, 2315
Cinara atrotibialis, parasitoids 10978
Clavigralla gibbosa 9810
Cletus signatus, natural enemies 5494
Cnaphalocrocis medinalis 7633
Cneorane 6909
Coccidae 10071
Coccinella septempunctata 1309

India cont.

Coccoidea 5766, 10716
Coccus viridis 5754, 9899
pathogens 8796, 9898
coconuts
conferences 11272
insect pests 6783
coffee, reports 7294
Coleoptera 4069
parasitoids 1862
pathogens 7969
Colocasia esculenta, insect pests 2879
Contarinia 4977
Coriandrum sativum, insecticide residues 10527
Cossus cadambae, pathogens 1799
cotton
insect pests 746, 1725, 2911, 3933-3934, 4919, 4932-4933, 5891, 7877, 10863
insecticide residues 2912, 11766
Lepidoptera 747, 3937, 7853, 7876, 8780, 9877, 11451, 11773
parasitoids 1743, 6970, 6972
Crocicidolomia binotalis 1619
crops
insecticide residues 606
reports 5246
Cryptocephalus 9188
Cryptozona belangiri 3834
Cryptozona semirugata 10496
Cucurbitaceae, insecticide residues 11705
Cuminum cyminum, insecticide residues 7570
Cydia critica, parasitoids 2836
Cydia leucostoma, parasitoids 6988
Cydia pomonella 8547, 11647
Cylas formicarius 709
Dasychira mendosa 2819
Delia platura 11550
Delphacidae, parasitoids 10626
Derelomorphus subfulvus 3925
Dermestes ater 7084
Deudorix epijarbus, parasitoids 3821
Dialeurodes citri 9708
Diaphorina citri 1578, 10732
Dieladisa armigera 5642
Dicranognathus nebulosus 3991
Diplopoda 2855
Diptera 178
Drepanosiphinae 2967
Drosicha dalbergiae 2718, 8578, 9671
Drosicha mangiferae 5764, 5768, 7759, 10744, 11679
pathogens 4801
Drosophila longivittata 10659
Drosophila siamiana 6469
Drosophilidae 7
Dysdercus cingulatus, pathogens 11935
Dystropicus madhyapradeshii 1841
Earias vittella 9755, 9880
natural enemies 1733
Eichhornia crassipes, natural enemies 3625-3626
Empoasca kerri 6903
Encarsia 3498
Encyrtidae 2459
entomology, reports 8186-8187
entomophilic nematodes 1940
Epilachna ocellata 2872
parasitoids 2812
Epiricania melanoleuca, hosts 361
Eriophyidae 10738, 10977
Eriosoma lanigerum 3783
parasitoids 6812
predators 4510
essential oil plants, books 6222
Eublemma dimidialis 1651
Eucalyptus, insect pests 3019
Eucoptacra ceylonica 10895
Eudocima 1585
Eumyzus pruni 7706
Eupatorium odoratum, insects 336
Euphyllura pakistanica 4793
Euproctis lunata 9861
Eutectona machaeralis 1798
Euwallacea fornicatus 9903
Fabriciella australis 1632
Fergusonina syzygii 5759
Ferrisia virgata, parasitoids 6849

India cont.

field crops
insect pests 2393, 3855
insects 7643
soil, insecticide residues 12007
Fiorinia theae, parasitoids 3952
forest trees, insect pests 1781, 10979
forests, arthropods 7934
fruit trees, insects 3837
Galeodes 5413
ginger
Diptera 346
insecticide residues 7572
grapes, insecticide residues 11629
Grewia asiatica 1573
groundnuts
insect pests 665, 3888, 6907-6908, 9814
insecticide residues 2849
Lepidoptera 668
Helicoverpa armigera 348, 1670, 1674, 2850, 2852, 3890, 5826, 5832, 5834, 5878, 6997, 7668-7669, 7797, 7810, 7812-7813, 8717, 8721, 8726-8727, 9819, 9821, 9852, 9865, 10806, 10812, 10848, 11732, 11975
insecticide resistance 6168
natural enemies 9820, 11590
parasitoids 670, 2886, 7878, 9818
predators 3891
Helopeltis antonii, parasitoids 6799
Hemiberlesia rapax, pathogens 5904
Hemiptera 1478
Hesperiidae 9340
Heteropoda gourae 3537
Heteropsylla cubana, predators 7031, 7056
Hibiscus, insect pests 8768
Hieroglyphus banian 3713
predators 3716
Holotrichia serrata 359, 9817
Homoeosoma 11519
Homona coffearia, parasitoids 9904
Homoptera, predators 2652
Hyadaphis coriandri 7571
Hyalopterus pruni, natural enemies 4763
Hyblaea puera, pathogens 1838
Hypera postica 476-477, 7697
parasitoids 3739
Ichneumoninae 241
Idioscopus 6851
Idioscopus clypealis 11675
parasitoids 11677
Indarbela 3825
pathogens 4799
Indarbela quadrinotata 5010
Indian mustard, insecticide residues 617
Indomecus 11871
insecticides
application 2391
environmental impact 7218
toxicology, statistics 7269
insects
nutrition, ecology, conferences 10206
surveys, books 10200
traps 168
Isoptera 831, 1779, 2613
Kerria lacca 6846
Kerria mysorensis 287
kohlrabi, insecticide residues 2800
Lablab purpureus, insect pests 3869
Lachnus salicis 8878
legumes, insecticide residues 11712
Lepidoptera 5888
parasitoids 6685
predators 10982
Leptispa pygmaea 10615
Leptobyrssa decora 2565
Leptocoris augur 7896, 10956
Leptocoris oratorius 6734, 7651
Leptocoris varicornis 2647
Leucinodes orbonalis 732-733, 9855
parasitoids 2888-2889
Leucopholis coneophora 5697
limes, insecticide residues 10731
Liogryllus, pathogens 5124

India cont.

- Lipaphis erysimi* 616, 618-619, 1626-1629, 2807, 3846, 6497, 6872, 6874, 7237, 8673, 9774, 11699-11701
parasitoids 6875
predators 2476, 8685
lucerne, insecticide residues 11612
Lycostomus praeustus 11672
Lygaeidae 7741
Lymantria obfuscata, natural enemies 5245
Maconellicoccus hirsutus 518, 8570
parasitoids 6790
pathogens 8022
maize, insect pests 411, 5616
mandarins, arthropod pests 6836
mangoes
insect pests 9731
natural enemies 11680
insecticide residues 585, 11676
Manilkara hexandra, arthropod pests 1883
medicinal plants, reports 7293
Melanagromyza hibisci, parasitoids 6862
Melanagromyza obtusa 659, 5827, 5830, 10807, 11719
parasitoids 2813
Melanagromyza sojae 8699, 11730
Melanaspis glomerata 1424
parasitoids 2593
predators 7584
Meloidae 3842
Mesostenus 6560
Metaceronema japonica, predators 8652
Metapodistis polychrysa 11522
Micraspis discolor 1307
Microtermes bharpurensis 6601
Microtermes unicolor, predators 5525
Mimegralla coeruleifrons 10526
museum specimens, pest control 11873
Mycodiplosis 11537
Mylabris pustulata 6904
Mylocherus 2969
Mylocherus nigrosuturalis 4766
Mythimna separata 399, 7653, 11555
Mythimna venalba 11566
Myzus persicae 347, 1691-1692, 1719, 2896, 3908, 5785, 8743, 10528, 10853
parasitoids 2866
predators 10529, 11524
Nanophyes 6994
Neochetina, pathogens 3626
Neorthacris acuticeps, parasitoids 3572
Nephoterix eugraphella 11673
Nephotettix virescens 425
parasitoids 7654
Nilaparvata lugens 422, 6726, 10109, 11570
parasitoids 4661
predators 4659
Noctuidae 660, 2662, 5726, 5813, 8053
Notacaphylla chinensis 2774
Nyereria rageshri, hosts 3239
Nyphasia apicalis 1816
Obereopsis brevis 6881
Odoiporus longicollis 2778, 10741
Odontotermes 6596, 11487
Odontotermes distans 7537
Odontotermes obesus 10665, 11734
Oides scutellata 8574
okras
Amrasca biguttula 601
insect pests 9754, 11691
insecticide residues 9757, 11692
Oligonychus indicus 2664
predators 4675
Omiodes indicata 3882
onions, insect pests 8753, 9845
Ophiomyia phaseoli 646, 2816, 3875
Opisina arenosella
biological control agents 2701
parasitoids 9649-9650, 10668
Opus incisi 11462
oranges, Hemiptera 4789
Orosius orientalis 10889

India cont.

- Orseolia oryzae* 423, 437, 2643, 3699, 4657, 5658, 6724, 6732, 7625, 11561, 11568
parasitoids 10610
Orthezia insignis 3979
Oryctes rhinoceros 497, 499, 10669
pathogens 9648
Oryzaephilus mercator, pathogens 11046
Oxycarenus hyalinipennis 4940
Oziotelpus senex 2049
Pachyonyx quadridens, parasitoids 2976
Papilio, parasitoids 2761
Paraponyx diminutalis 1405
Paraponyx stagnalis 3712
pearl millet, pest control 4656
peas
insect pests 645, 2825
insecticide residues 5807
pest control 643
Pectinophora gossypiella 2920, 4941, 6973
parasitoids 244
Pempherulus affinis 4920
Peregrinus maidis 7657
pest control 1990
books 12021
conferences 8178
legislation 11129
pesticides, uses 6141
Petrobia latens 5577
Phaseolus vulgaris, insecticide residues 629
Phthorimaea operculella 693, 1688, 2869, 8744
Phyllocnistis citrella 1575, 2757, 3809, 7752, 7756
Pieris brassicae 611
Piezodorus hybneri 9800
Piper nigrum, insect pests 3637, 9508
Planococcus citri, parasitoids 10726
Planococcus minor 4717
plantation crops, reports 11277
Plutella xylostella 9765, 11694
Polyphagotarsonemus latus 689
pomegranates, insect pests 1591
potatoes
insect pests 1689, 5848
natural enemies 1687
insecticide residues 7822
Lepidoptera 2867
research, reports 2115
Priscapalpus 6778
Prociophilus, parasitoids 5012
Prostephanus truncatus 858
Psorosticha zizyphi 2771, 7753
parasitoids 1584, 2770, 11660
Psylliodes plana 3900
Psyllolobora cincta 6953
Pteroma plagiophleps 8890
parasitoids 10980
Ptyleus nebulosus 2594
Pyralidae 2645, 2838
parasitoids 9528
Pyrilla perpusilla 11553
natural enemies 8392
parasitoids 2595, 5589, 5592, 6689, 7585
Pyrus pyrifolia, arthropod pests 8620
Quadraspidiotus perniciosus 9681
natural enemies 8601, 11433
parasitoids 4737
predators 6810
Raoiella indica 7711
predators 11619
Rastrococcus
natural enemies 563
parasitoids 10658
reservoirs, insecticide residues 8141
Reticulitermes tirapi, pathogens 4545
Rhadinomerus sulcipennis 7059
Rhesala moestalis 11798
Rhizophagus 1820
Rhopalocera 7443
Rhopalosiphum maidis 3664, 5611
Rhynchaenus mangiferae 584
Rhynchophorus ferrugineus 9647
natural enemies 6782
Rhynocoris marginatus 2478

India cont.

- Ricania zebra*, ectoparasites 1425
rice
Hemiptera, natural enemies 8514
insect pests 1471, 1475, 1477, 2644, 2653, 2657, 3687, 5641, 5654, 5660-5661, 6736, 7648-7649, 9598, 11573
insecticide residues 4668, 8512, 10607, 11574
insecticides, effects 6720, 7617
Lepidoptera 441
pest control 3696, 6721
stem borers 421
Rivula 6899
natural enemies 8713
predators 6894
safflower, insecticide residues 1724
Sarucallis kahawaluokalani 10894
Scaphoideus 3223
Scaphotettix 3223
Scarabaeidae 320, 3647, 6501, 11743
predators 2338
Schistocerca gregaria 3480, 5412, 8320
Scirpophaga excerptalis 9529
parasitoids 9527
Scirpophaga incertulas 1472, 3688, 5646, 5662, 11579
Scirtothrips dorsalis 5867
Scolytidae 3229
Scopula albiflava, parasitoids 11733
sericulture, reviews 10494
sesame, insecticide residues 2897
Sinoxylon, parasitoids 1378
Sitophilus oryzae, pathogens 7967
Sitotroga cerealella 6038, 11028
Sogatella furcifera 2656, 6735, 7631
soil
insecticide residues 4671, 8142
insecticides, adsorption 8143
sorghum
insect pests 1499, 2666, 7659, 11583
insecticide residues 1494, 3718, 8519, 11586
soyabeans
insect pests 2832, 4854, 4863, 6898, 9808, 11723
insecticide residues 11727
pest control 4812
Spermophagus pygopubens 11896
Sphenoptera indica 2837
spice plants
reports 7296
research, reports 11276
Spilosoma obliqua 1647, 2729, 7783
Spodoptera litura 3164, 6952, 7883, 8659, 8788
parasitoids 6984
Stenchaetothrips biformis 3698
Stenotarsonemus furcatus 717
Stephanitis typica 1592
stored products pests 4069
strawberries, pollinators 2705
Striga, natural enemies 9489
sugarcane, pest control, books 6229
Synegia 7846
Syrphidae, parasitoids 6873
Talicada nyseus 10901
tea
Lepidoptera, parasitoids 2935
mites, predators 5902
Tectona grandis, Lepidoptera 5920
Tenuipalpidae 2965
Tephritidae, parasitoids 2692
Terastia meticulosalis 3001
Terminalichus dehlionensis 6850
Termitidae 8725
Tetranychus cinnabarinus 10780, 11693
Tetranychus macfarlanei 2794-2795, 3841, 5877, 11761
Tetranychus neocaledonicus 3919
Tetraponera rufonigra, prey 10413
Thrips flavus 11644
Thrips tabaci 7828-7830
Thysanoptera 3784, 6845
predators 2468
tobacco
entomology, reports 6985
insecticide residues 4943-4945

India cont.

- tomatoes, insecticide residues 4905
- Toxoptera aurantii* 3810, 10727
- predators 9905
- Trabala vishnou* 4840, 9860
- Ricinus communis* 9860
- Trilocha varians*, parasitoids 10897
- Tropicomyia theae*, parasitoids 3953
- Turanogryllus* 5266
- Uroleucon carthami* 2898
- Utetheisa pulchella* 9887
- vegetables, insecticide residues 586
- Vespidae 4864
- Vigna*, insect pests 1652
- Vigna mungo*
 - insecticide residues 2840
 - pest control 2830
- Vigna radiata*
 - insect pests 2831, 5811
 - Lepidoptera 1649
- Vigna unguiculata*, insect pests 2827
- water, insecticides 5215
- Xenoencyrtus*, hosts 5004
- Xylosandrus compactus* 2934
- Xylotrechus quadripes* 3947
- yams, commodities, insects 7089
- Ziziphus mauritiana*, pollinators 1571

Indian mustard (*Brassica juncea*)

- Aphididae, India 2810, 9776-9777
- Apis florea*, pollination 5438
- Athalia lugens* 2238, 10761
- Bagrada hilaris* 10774
- India 5795
- Corcyra cephalonica*, varietal susceptibility 10775
- fields
 - Leucopis*, India 9776
 - predatory insects, India 8685
 - Syrphidae, India 2810, 6873
- insecticides
 - residues 617
 - toxicity 2044
- Lipaphis erysimi*
 - India 1629, 8685, 9774
 - resistance 10762
 - varietal susceptibility 8673
- Nilaparvata lugens* 9589
- Plutella xylostella* 9775
- volatile compounds, attractants, *Plutella xylostella* 9758

Indiana, hosts, *Gryllotalpa africana* 6062**Indicator species**

- aquatic insects, environmental assessment 9314
- Araneae 4203
 - grassland management 5682
- Drosophila*, climatic change 5376
- Drosophila melanogaster*, water pollution 163
- forests, arthropods, pollution 8879
- grasslands, invertebrates, cultural methods 5681
- Isoptera, soil properties 5522
- Linyphiidae, pesticides, nontarget effects 7271
- Opiliones 4203
- Westralunio carteri*, insecticide residues 7228

Indigofera cardifolia*, habitats, *Schistocerca gregaria*, India 3480**Indigofera hirsuta***

- Amblyseius msabahaensis*, Kenya 1833
- Anticarsia gemmatalis* 11683
- Aphis craccivora*, Georgia 3774

Indocalamus migoii*, *Iphicrates spinicaput*, China 8440*Indole**

- mixtures
 - attractants
 - Acalymma vittatum* 7788
 - Diabrotica virgifera* 10595

***Indomecus*, taxonomy 11871**

- Indomecus bombayensis*
 - taxonomy, new species 11871
- Tectona grandis*, India 11871

Indomecus brevimandibularis

- grasses, India 11871
- taxonomy, new species 11871

Indonesia

- Aphididae 699-700

Indonesia cont.

- cabbages
 - insect pests 11695
 - insecticide residues 3859
- Callosobruchus* 5089
- Chaetocnema* 7910
- Dasynus piperis* 10531
- Delphacidae 10104
 - natural enemies 1463
- Dipterocarpaceae, insect pests 7908
- Elaeidobius kamerunicus* 7712
- Epilachna* 2553
- Heteropsylla* 8904
 - predators 8380
- Heteropsylla cubana* 813, 825
- Hymenoptera 2355
- Hypothenemus hampei* 8795
- Milonia basalis* 8816
- Nephotettix* 9581-9582
- Nephotettix virescens* 1464
- Nilaparvata lugens* 10109
- oil palms, pollinators 1541
- Onthophagus parapatatus* 5265
- Phthorimaea operculella* 3907, 9832, 11741
- Piper nigrum*, insect pests 10530
- rice, insect pests 6722
- Scirpophaga nivella* 10547
- Spodoptera exigua* 3913
- Spodoptera litura* 8789

Indoplanorbis exustus*, plant extracts, toxicity 10099*Industrial crops, pest control, Romania 4571****Infectious flacherie virus**

- antiviral agents, effects 6069
- hosts, *Bombyx mori* 5530, 6069

Information

- coffee, pest control 4956
- pest control 5153
 - Africa 5145
 - Brazil 5151
 - Caribbean 5150
 - East Asia 5148
 - Europe 6104
 - Kenya 5146
 - Malaysia 5147
 - North America 5152
 - Pacific Islands 5149
- plant protection 5142-5144
 - conferences 5239
- quarantine, South East Asia 5175
- rice, pest control 4669
- wheat, pest control 4626

Information systems, pest control, Victoria 6491***Inga*, *Nymphidium lisimon*, Brazil 4004****Inorganic salts**

- synergism 10084
- toxicity, *Tribolium confusum* 9066

Inostemma hockpari

- biology 10434
- hosts, *Thecodiplosis japonensis* 10434
- Korea Republic 10434

Insect growth regulators

- control, *Lymantria dispar* 10002
- effects, *Bursaphelenchus xylophilus* 9082
- genetic engineering 7232
- mode of action 6209-6210, 9102, 11153
- pest control 6126
- plant extracts 4228

Insect pests

- biology, behaviour 2312
- cereals, UK 10190
- Chile 5231
- China 6135
- damage
 - bioassays 11399
 - measurement 4165
- Denmark 10222
- economic thresholds
 - determination 919
 - reviews 920
- USSR 919
- forecasting 6135
- forest trees
 - conferences 11265
 - damage 10918-10919
- genetics, insecticide resistance 11119
- insecticides, resistance 5202

Insect pests cont.

- Korea Republic 9029
 - laboratories, colonies, Japan 1013
 - learning, reviews 2312
 - Libya 3407
 - migration, meteorology, books 7284
 - monitoring, conferences 4238
 - natural enemies, weeds, effects 4873
 - plant pathogens, transmission 11564, 11900, 12019
 - plants, interactions, books 11254
 - Populus*, conferences 11269
 - predators, interactions 7412
 - soyabeans, damage 5821
 - Spain 4569
 - weeds, interactions, reviews 10518
- Insect viruses (see also individual types of viruses)**
- acute paralysis virus 10478
 - Baculoviridae 884, 893, 993, 1962, 3108, 3853, 6182, 7148, 8015, 8040, 8043, 8160, 11107
 - Baculovirus* 4542, 11095
 - Baculovirus amsacta* 2846
 - Baculovirus anticarsia* 4860, 11279
 - Baculovirus erinnyis* 712
 - Baculovirus heliothis* 2635
 - Baculovirus oryctes* 5695
 - cricket paralysis virus 889
 - cytoplasmic polyhedrosis viruses 2531, 3595, 4045, 7126, 7142, 8160, 10052, 11102
 - densonucleosis viruses 1363, 1366, 3782, 9475, 11931, 11933
 - Drosophila C virus* 4092
 - Enterovirus* 4706
 - Entomopoxvirinae 3466, 7136, 11078
 - Entomopoxvirus* 1216-1217, 8160
 - granulosis viruses 877, 1957, 3094, 3798, 3853, 4110, 4147-4148, 4483, 4757, 4958, 5112, 6076, 6098, 6709, 6870, 8476, 8582, 8584, 8863, 8936, 9005, 9054, 10072, 10074, 10712, 10988, 11098, 11919, 11932
 - infectious flacherie virus 5530, 6069
 - iridescent viruses 4117, 4125
 - Iridoviridae 4121
 - Nodaviridae 1944
 - nuclear polyhedrosis viruses 117, 739, 872, 877, 880-881, 887-888, 890-892, 1280, 1826, 1838, 1949, 1952-1953, 1955, 1957, 2177, 2907, 2998, 3006, 3040, 3087, 3128, 3590, 4014, 4030, 4032, 4090, 4093-4095, 4100-4102, 4106, 4109-4110, 4113, 4115, 4118-4119, 4122, 4124, 4134-4137, 4140, 4146, 4148, 4150, 4503, 4559, 4715, 5005-5006, 5077-5078, 5109, 5111-5113, 5119-5120, 5129, 5131, 5133, 5140, 5622, 5940, 5964, 6060, 6074-6076, 6078-6079, 6082, 6084, 6088, 6090-6091, 6093, 6097, 6604-6605, 6609, 6709-6710, 6733, 7024, 7132-7134, 7139, 7149, 7152, 7232, 7542-7543, 7669, 7881, 7904, 7917, 7954, 7959, 8035-8036, 8041, 8045, 8476, 8758, 8798, 8863, 8883, 8991, 9000, 9003-9004, 9008-9009, 9054, 9469, 9547, 9802, 9805, 9807, 9861, 9881, 10002, 10059, 10061, 10064, 10075, 10081, 10487, 10802, 11064, 11080, 11089-11093, 11096-11097, 11101, 11103-11109, 11824, 11906, 11919-11920, 11926, 11934, 11937
 - Picornaviridae 4706, 6070
 - Polydnaviridae 4114
 - Polydnavirus* 1295, 8371
 - Poxviridae 11329
 - Reoviridae 3678, 4143
 - Rhabdoviridae 8974, 11329
 - sacbrood virus 871
 - application 9022
 - control
 - Agrotis segetum* 741
 - Buzura suppressaria* 2895

Insect viruses cont.

control cont.

Lepidoptera 1972
culture techniques 7923
detection 3466, 8165
dictionaries 8160
genetics

genetic engineering 6106
pest control 3128

hosts

Antheraea mylitta 10958
Aphididae 11910, 11916
Aproaerema modicella 8723
arthropods 6068
Bombyx mori 3594
Caledia captiva 3467
Cerapteryx graminis 1520
Heliothis 4126
insects 11475, 11941
Lepidoptera 3782, 5308, 6745
Mamestra brassicae 610
Neodiprion 7923
Noctuidae 5601
Rhopalosiphum padi 4139, 11918
identification 11918
Kashmir bee virus 871
mixtures, control, *Cydia pomonella* 547
persistence, environment 4239
pest control 1966, 6106, 9022
USSR 8992
reviews 10082
production 7139, 11090
reviews 10988

Insecticidal plants, pest control 3217**Insecticidal properties**

Acorus calamus
oils 6678, 10536
reviews 5082
Ageratum conyzoides, extracts 11709
4"-amino-4"-deoxy avermectins 7183
Annona bullata, extracts 9038
Annonaceae, extracts 10116
Azadirachta indica
bibliographies 5227
extracts 7087
azadirachtin 4220
Bacillus thuringiensis, toxins 6064
Centella asiatica 2580
Citrus, extracts 7169
coumarins 10162
Croton, extracts 9498
2,2-dimethyl-3-(3-phenoxybenzyloxy)
propanal, derivatives 11963
N-(2,2-dimethylpropyl)carbamoylethyl
phosphonate, derivatives 11147
Diplocisia glaucescens, extracts 9499
Eichhornia crassipes, extracts 4072,
8424, 10027
fenugreek, extracts 4066
geranylinalool 11042
Limnanthes alba var. *versicolor*,
extracts 7189
Liriope muscari, extracts 5192
Mentha longifolia, extracts 6675
N-(2-Methylpropyl)-2,4-dienamides
11966
(2E,4E)-N-(2-Methylpropyl)-6-
phenylhexa-2,4-dienamide 11964
analogues 11965
N-(2-methylpropyl)-6-phenylhexa-2,4-
dienamides, derivatives 11146,
11239
monocerin 7131
Nicotiana 757
nominine 4182
Pachyrrhizus erosus, extracts 6163
Penicillium, extracts 4183
Petunia, extracts 9040
3-phenoxybenzyl 3,3,3-trifluoro-2-
phenylpropyl ethers 6482
plant extracts 4151
plant proteins 9105
plants
extracts 4228, 5189, 9041
oils 6052, 7102
Ricinus communis, extracts 11763
saligenin cyclic phosphates 10121
Tanacetum balsamita 5579
Tanacetum cinerariifolium 7180
zingiberene 9848

Insecticide resistance

Myzus persicae 6157
Aphididae 7278
Aphis gossypii 7761, 7821, 9741,
11173
Aphytis melinus 2762
assays 7178, 8629
Bemisia tabaci 6974, 10859
beneficial arthropods 10089
Cacopsylla pyricola 1565, 8623-8624
Chilo suppressalis 10111-10112
Chrysodeixis includens 10801
Chrysoperla carnea 2509
Cryptolestes ferrugineus 8927
Cydia pomonella 2745
Delphacidae 7179, 10104
detection 3171
Diabrotica virgifera 11161
Drosophila melanogaster 7231
economics, reviews 3156
Epiphyas postvittana 6814, 10700
evolution, reviews 11969
groundnuts, commodities, insect pests
11895
Helicoverpa 7184
Helicoverpa armigera 6168, 11164
Heliothis 4928
Heliothis virescens 2914-2916, 2921,
4105, 4927, 6152-6154, 8775,
8778, 11170, 11976, 11978
Hypothenemus hampei 4955, 10877
insect pests 7861
genetics 11119
insects 10121
Leptinotarsa decemlineata 5191, 7839,
8745, 9057, 10117, 10827
Lipaphis erysimi 6872, 11986
Liriomyza 6160
Liriomyza trifolii 4966, 5911, 7003,
9055
Lycoriella mali 2792
Lygus hesperus 11166
maize 8499
management 6144
chemical industry 9042
Metaseiulus occidentalis 2693
mites 10437
models 6160
monitoring 6815, 7003, 8778, 10877,
11767, 11977
Myzus persicae 673, 695, 3090, 3171,
4874, 6158, 7335, 10851
Nephotettix cincticeps 10110
Nilaparvata lugens 10103
Noctuidae 11767
Panonychus ulmi 8629
Phorodon humuli 350-351, 1410, 2579
Phyllonorycter blancardella 8603,
10699
Phytoseiulus persimilis 11439
Platynota idaeusalis 3795, 6813, 6815,
8604
Plodia interpunctella 8086
Plutella xylostella 1123, 2798, 2809,
4831, 5186, 7779, 8670, 10106,
11169, 11694
Rhizoglyphus robini 8082, 11748
Rhyzopertha dominica 10118
Scirtothrips citri 5750-5751, 8643,
11163, 11974
Sitobion avenae 5183
Sitophilus granarius 8931
Sitophilus oryzae 7978
Sogatella furcifera 7652
Spodoptera exigua 11977
Spodoptera frugiperda 404
Spodoptera littoralis 1064, 2011, 2905,
3207-3208, 3935
stored products pests 1897, 5092-5093,
6029, 7108, 8949, 8952
Tribolium castaneum 8091, 11171-
11172
Trioxys pallidus 6801
Typhlodromus pyri 6817

Insecticides

adsorption, soil 8139
analysis 1198, 6483, 6488, 8305
bibliographies 9117
application 188, 1543, 2001, 3735,
4866-4867, 4870, 6147, 7161,

Insecticides cont.

application cont.

8057, 10093, 10685, 10816,
11400, 12018
conferences 2111
models 7447
safety 2391
seed treatment 8700, 9025
simulation 5394
sprayers 6138
ultralow volume spraying 11995
applicators 7942
bioassays 3203, 4178, 7445, 8085
books 11248, 12020
control
arthropod pests 1375, 11115-11116
cereals, insect pests 10553
Cicadellidae 9733
Cosmopolites sordidus 1593
cotton, insect pests 2902
Dendroctonus ponderosae 7918
forest pests 842, 3995
grapes, arthropod pests 10685,
11627
Lobesia botrana 2716
Orgyia pseudotsugata 7917
Otiorynchus 10924
potatoes
arthropod pests 2864
insect pests 703
Rhyacionia 10930
soyabeans, insect pests 11279
stored products pests 4070
degradation
environment 9353
models 5208, 10102
reviews 3201
deposition 8489
monitoring 4419
detection 1199, 5203, 6484, 9089
determination 3154, 9091, 10146
development 11136
reviews 8080
dispensers 10370
disposal, German Democratic Republic
2062
distribution, determination 6485
drift
effects, determination 9051
measurement 3446
sampling 3038
effects
birds 6197
cotton 7265
forests, watersheds 836
grapes 11626
greenhouse crops, arthropod pests
6170
man 9080
mites 5728
predatory mites 3796
evaluation 946, 1996, 6170, 10377,
10859
fat, recovery 9347
filtration 1993
formulations 1997, 2000, 6151, 7161,
7175, 8081, 11968
adjuvants 1998
carriers 11137
conferences 2108
controlled release 10188
development 1999
dusts 6033
granules 9031
reviews 1989, 6141
fractionation 11142
fungicides, interactions 10814
genetic engineering 3108, 8033
hydrolysis, measurement 1410
information 10185
Austria 6146, 6148
Italy 10115
Mediterranean countries 4227
tropics 4227
USSR 395-396, 398, 401, 419, 427,
626, 678, 842, 909, 2600,
2862, 3132
insecticide resistance, management,
reviews 5202
juvenile hormone antagonists 6212

Insecticides cont.

- law, German Democratic Republic 2059
- leaching
 - assessment 3196
 - reviews 2802
 - soil 3196
- legislation 11182
- marketing, Europe 1995
- metabolism, reviews 10180
- microbial degradation, soil 2068
- mixtures
 - activity, estimation 7191
 - compatibility 942
 - control, tomatoes, insect pests 1712
- mode of action 6143
 - reviews 10113, 10180
- monitoring, organizations, directories 7280
- movement
 - groundwater 10141
 - soil 2070
 - reviews 9092
- mutagenicity, determination 6188
- Netherlands, uses 5180
- nontarget effects 985, 12029
 - Aleochara bilineata* 1292
 - Apis mellifera* 11269, 12004
 - aquatic environment 12001
 - aquatic organisms 2016, 7195
 - arthropods 9035
 - beneficial arthropods 2733, 3765, 4157, 6792, 6828, 10089
 - bioassays 7194-7195, 9085
 - Cotesia plutellae* 225
 - determination 1282, 7204, 9098
 - environment 7218
 - evaluation 6200
 - fungi 10661
 - Glabromicroplitis croceipes* 1299
 - Harmonia axyridis* 5874
 - Helicoverpa zea*, parasitoids 9851
 - Malaysia, reviews 8056
 - mammals, reviews 10183
 - man 4212, 6150, 6187, 6189-6190, 6195, 7201, 7208, 8107, 8114, 8924, 8957, 9069-9071, 11184, 12018
 - Neoseiulus longispinosus* 9900
 - Paederus fuscipes* 5486
 - parasitoids 2740
 - Phytoseiidae 9665
 - predatory arthropods 4860
 - sugarbeet 3898
 - testing 4157
- persistence, soil 11234
- pest control
 - Africa 1011
 - conferences 6235
- photosensitivity 3222
- physicochemical properties 2053
- phytotoxicity, determination 11401
- pollutants, marine areas 4213
- pollution, groundwater, reviews 10142
- registration 8174
 - Japan 11213
 - USA 9487
- residues
 - analysis 7082, 9032, 10184, 10368, 11017
 - animal products 1891
 - apples 10697
 - detectors 11149
 - determination 1845, 2052, 2058, 5181, 6020, 6186, 7224, 7968, 8893, 9696, 10144, 11984, 12035
 - drinking water 2056, 2061
 - environment 3200
 - extraction 11985
 - fats 11142
 - foods 5200, 7082, 7208, 8924, 11014
 - assessment, books 10176
 - reports 1023, 7301, 10224-10225
 - greenhouse crops 592
 - groundwater 5210, 8134, 10143, 10152-10153, 11228
 - law, European communities 2002
 - oils 11142
 - sea water 9096

Insecticides cont.

- residues cont.
 - stored products 1893, 10184
 - water 2037, 2055, 11182
 - resistance, detection 2921
 - runoff, models 6191
 - safety
 - books 2098
 - German Democratic Republic 2060
 - man 2040, 6184, 7162
 - screening 9755
 - simulated spray drift 5394
 - soil, degradation 6207
 - sprayers 1599, 3936, 7940, 10859
 - storage, USSR 943
 - subsidies, Central America 1973
 - surfactants 1999
 - synergism 11151
 - measurement 4647
 - synthesis 1411, 11135
 - testing 8071
 - toxicity
 - Acari 2880
 - Amblyseius mckenziei* 6577
 - analysis 11979
 - Apis mellifera* 4461
 - Choristoneura occidentalis* 11979
 - determination 6150-6151
 - models 9353
 - parasitoids 9421
 - statistical analysis 3157-3158
 - stored products pests 6033
 - toxicology 8174, 9036
 - statistics, books 7269
 - usage 6150, 11248
 - Austria 5693
 - developing countries 8054
 - Italy 6149
 - Kenya 6128
 - UK, reports 6246
 - USA 2120
 - USSR 2027
 - volatilization, soil 2069
 - with herbicides, synergism 4647
- Insects**
- anthelmintics, effects 6342
 - antifeedants, effects 4220
 - Baccharis salicifolia*, pollination 9506
 - behaviour, models 2505
 - bibliographies 10170
 - biochemistry
 - antigens 7374
 - cuticle 11313
 - peptides, nomenclature 102
 - biology 10213
 - behaviour 3377, 4418, 6406, 9295, 9313, 10344, 11366
 - models 10378
 - development 4295
 - diapause 1150, 6507
 - reviews 1149
 - dispersal 6430
 - food preferences 5270
 - life cycle 1043, 1145
 - reviews 1146
 - monitoring 2389
 - overwintering, reviews 6439
 - oviposition 6419
 - population dynamics, reviews 6405
 - reproduction 7288
 - conferences 8179
 - reviews 6289
 - searching behaviour 7405
 - carbon dioxide, effects, reviews 3153
 - carrots, pollination 6913
 - cell lines
 - genetic engineering 8033
 - insecticides, toxicity 8014, 8017
 - pathogens 3108
 - cells, staining 1214
 - checklists, Italy 3412
 - climbers, Berlin 774
 - cold resistance 124
 - reviews 6439
 - collection 7458
 - communication, reviews 3313
 - conservation 6396
 - conservation tillage, effects 8410
 - control
 - microbial pesticides 1019
 - nematodes 1968

Insects cont.

- crowding, models 7118
- damage, detection 2398
- development, determination 5403
- distribution, Korea Republic 1188
- diuresis, peptides, reviews 9270
- ecology 7391
 - distribution 11377
 - ecosystems 2341
 - environmental effects 1164
 - population dynamics 1168, 2333, 3398, 6447, 6486
 - models 10355
- endangered species, rearing techniques 6397
- Europe, bibliographies 9146
- evolution 5270, 7357, 7391
 - wings 19
- fauna, North America, conferences 4241
- field crops, conferences 6242
- fungi
 - interactions
 - books 5240
 - reviews 4817, 5064-5065, 5102, 5123, 5164
- genetics
 - population genetics 6431
 - research 11353
 - reviews 7391
- growth regulators, effects 6211, 11145
- habitats, German Federal Republic 2598
- herbicides, effects 10517
- hormones
 - determination 11338
 - reviews 9257
- immunity, reviews 8223
- insecticides
 - effects 7194
 - pathogenicity 8014
 - toxicity 940
- introduction 6396, 6430-6431
- life cycle, evolution, books 2095
- marking 2387, 6498
- membranes, vesicles, preparation 1070
- metabolism, spectroscopy 57
- microscopy 6487
- migration
 - remote sensing 6493
 - reviews 1157
- models 2333
- monitoring 2398, 3448
 - traps 168, 2399, 7460
- morphology, reproductive organs, reviews 2161
- moulting hormones, immunoassays 2380
- movement, recording 10374
- mutagens, effects 10098
- natural enemies, interactions, models 6588
- nervous system
 - evolution, reviews 2243
 - preparation 1213
- neurohormones, reviews 993
- North America, taxonomy, conferences 10213
- nutrition
 - ecology, conferences 10206
 - reviews 6319
- oil palms, pollination 9134
- olfactory organs, stimulation 3455
- organs, sectioning 3451
- pathogens 3096, 5123
 - models 8034
- phenology, estimation 9327
- pheromones 1007, 3313
 - books 2074
- physiology
 - bioenergetics, reviews 1057
 - chemical composition 1124
 - circadian rhythm 3272
 - cuticle 4343, 7354, 11153, 11305
 - development 28, 32
 - digestion 6317
 - digestive system 7357
 - endocrine system 7367, 9250, 9258, 11343
 - environmental factors 58

Insects cont.

physiology cont.

- enzymes 1061, 1065, 1069, 1718, 7232, 7336
- inhibitors 6142
- immune response 5305, 11314
- isoenzymes, reviews 4340
- membranes 1071
- metabolism 11342
- nervous system 83, 1102, 2244, 2247, 3302, 4326, 5317, 6342, 7360, 8244, 10113, 11319-11320, 11322
- peptides 1105
- reviews 2246
- neurohormones 7359
- neuropeptides 8243
- nutrition 4318, 9215
- parasitism 2450
- pheromones 4218
- reproductive organs 8252
- sense organs 6345
- senses 3314, 9235, 10301
- reviews 1107
- sound production 5285
- thermoregulation 2205
- plant extracts
 - antifeedants 6674
 - effects 3151
 - toxicity 10538
- plant pathogens
 - transmission 3089, 6056, 6914, 10647
 - reviews 11060
- plants
 - America 8912
 - evolution 5546
 - interactions 4318, 6009, 6394, 7556, 9027, 10352
 - books 6225, 8170
 - evolution 11009
 - reviews 2557, 6406
 - UK 10095
- pollution, effects 6225
- polymorphism 1043
- population dynamics
 - analysis 5396
 - estimation 7028
- populations, analysis, conferences 10210
- predators 1517
- preservation 3461
- Raphanus raphanistrum*, pollination 1399
- rearing techniques 8310, 11409
- models 11412
- saline, development 6316
- Salix*, pollination 7042
- sampling, reviews 6447
- scanning electron microscopy 7462
- secretions, antifeedants, birds 5295
- semiochemicals 1002
- sex pheromones, reviews 3294
- Solanum*, South Africa 2568
- songs 5285
- storage 11409
- sunflowers, pollination 5869
- surveys, India, books 10200
- survival, estimation 8264
- symbionts, reviews 2339
- taxonomy 5102, 5260, 5285
- books 1000
- terpenoids 8067
- Toxoptera odinae*, honeydew 1863
- trachea, volume, measurement 3450
- tropics 1000
- Umbelliferae, interactions 8411
- weeds
 - China 5640
 - ecological balance 10505
 - interactions, reviews 10518
 - New South Wales 2572

Insects as food

- Australia 1356
- books 8162
- Japan 1355
- nutritive value, rats 7468

Insegar (see Fenoxycarb)**Integrated control** (see also Integrated pest management)

- Switzerland 7166, 8062

Integrated control cont.

arthropods

- Cape Verde 3133
- Europe 6130
- India 8178
- Israel 1375
- Netherlands 1014, 1976
- Acari 1252, 10709
- Aphididae 7278
- apples, arthropod pests 3795, 3799, 6816, 8596, 8617
- Aproaerema modicella* 666
- arable crops, insect pests 4160
- Auchenorrhyncha 10212
- Bemisia tabaci* 5170
- cabbages, insect pests 8682
- Cacopsylla pyri* 560
- cereals, arthropod pests 901, 6699
- chicory, arthropod pests 4816
- Cicadellidae 1556
- Citrus, arthropod pests 8641
- Coccoidea 3769
- cocoa, insect pests 1747
- Costelytra zealandica* 6756
- cotton, arthropod pests 740, 8770
- Crataegus laevigata*, arthropod pests 1856
- Cryptophlebia leucotreta* 5752
- cucumbers, arthropod pests 7785
- Cylas formicarius* 6931
- Delia coarctata* 387
- Dendroctonus frontalis* 7949
- Diaprepes abbreviatus* 8645
- forest pests 1785
- fruit trees, arthropod pests 10660
- fruits, insect pests 3134
- grapes, arthropod pests 2713, 6796
- greenhouse crops
 - arthropod pests 3135, 6876, 6944, 7786, 9017, 10205
 - insect pests 5236
- Helicoverpa armigera* 7861
- hops, arthropod pests 3640
- Hydrellia* 1469
- Leptinotarsa decemlineata* 3901
- Liriomyza trifolii* 11782
- Lissorhoptrus brevirostris* 8507
- Lymantria dispar* 10002
- maize, insect pests 2635, 6719
- orchards, arthropod pests 531
- Oscinella frit* 9135
- Panonychus ulmi* 552
- peaches, arthropod pests 5238, 8628
- pears
 - arthropod pests 7737, 8625
 - insect pests 4762
- Phaseolus vulgaris*, insect pests 634
- Psila rosae* 3899
- rape, arthropod pests 2801
- Rhynchophorus ferrugineus* 9647
- rice, insect pests 5641
- Rothschildia orizaba* 4953
- Sipha flava* 3724
- soyabeans, arthropod pests 1660
- strawberries
 - arthropod pests 2704
 - insect pests 11622
- sugarcane, insect pests 10549
- Thysanoptera 4837
- tomatoes
 - arthropod pests 10847
 - insect pests 1712
- Trialeurodes vaporariorum* 2072, 3915, 8761
- vegetables
 - Acari 1713
 - insect pests 4809
 - wheat, insect pests 9532

Integrated pest management (see also

Integrated control; Pest management)

- apples 1560
- USA 10703
- books 7281, 12030
- cereals 9532
- crops 1964, 4240
- decision making 8314
- developing countries 8060
- economic analysis 5169
- economics 7447
- evaluation 8060
- expert systems 7949

Integrated pest management cont.

- India, conferences 8178
- maize 1453
- models 7163, 9010
- Netherlands 1976
- ornamental plants 6998
- pecans 4725
- Philippines 8059
- plantation crops 9488
- rangelands 11255
- rice 2660
- small fruits 10186
- soyabeans 1660
- USA 10800
- sugarbeet, Wyoming 9823
- sweet potatoes 7827
- teaching materials, catalogues 7286
- tomatoes 9851
- tropics
 - books 4230
 - information 4230
 - USA, reviews 8061
 - Western Europe, reports 12036
- Intercropping**
 - effects, *Bruchidius atrolineatus* 10797
 - Vigna mungo*, effects, insecticides, deg-radiation 2840
- Inurois kyushuensis**
 - biology 1761
 - Rhododendron kiusianum*, Japan 1761
- Invertebrates**
 - Arab countries 11955
 - cell cultures, books 3216
 - conservation tillage, effects 8410
 - development, books 11251
 - drainage, effects 10354
 - ecology, population dynamics 10354
 - Europe 5377
 - fire, effects 5382
 - forest litter, Papua New Guinea 11010
 - forests
 - China 5048
 - Finland 1786
 - German Federal Republic 1020
 - grasslands, Netherlands 5681
 - habitats, Peru 8922
 - heavy metals, effects, reviews 10155
 - insecticides, effects 4247
 - metals, effects, books 4229
 - microorganisms, symbiosis 11379
 - monitoring, traps 5382
 - nervous system, evolution, reviews 2243
 - nomenclature, UK, books 1012
 - octopamine, reviews 9220
 - physiology
 - chemical composition 5377
 - enzymes 6294
 - immune response 5305
 - nervous system 2244, 5324-5325
 - pollution, effects 5377
 - reproduction, books 10181
 - soil
 - Brazil 1859
 - Italy 5408
 - Kansas 7449
 - Mediterranean countries 5382
 - Peru 8922
 - USSR 3420
- Ionizing radiation**, effects, *Trogoderma granarium* 2296
- Iphiaulax**
 - hosts, Lepidoptera 1508
 - sorghum, fields, South Africa 1508
 - taxonomy 1333
- Iphecrates spinicaput**
 - distribution, China 8440
 - Indocalamus migoi* 8440
- Ipheisus dinghuensis**, taxonomy, to *Paraamblyseius* 1040
- Ipoobracon grenadensis**, taxonomy, to *Digonogastera* 7309
- Ipoobracon rimac**, taxonomy, to *Digonogastera* 7309
- Ipomet** (see Bromfenvinphos, with methoxychlor)
- Ipomoea aquatica**, insecticides, residues 7207
- Ipomoea batatas** (see Sweet potatoes)
- Ipomoea carnea**
 - Aspidomorpha* 3617

Ipomoea carnea cont.

- extracts
- antifeedants, *Spodoptera litura* 5224
- control, *Phthorimaea operculella* 1898
- effects, *Lipaphis erysimi* 614
- toxicity, *Spodoptera litura* 5189
- mulches, control, Isoptera 7095
- Ipomoea fistulosa* (see *I. carnea*)
- Ipomoea hederifolia* (see *Quamoclit hederifolia*)
- Ipomoea purpurea* (see *Pharbitis purpurea*)
- Ipomoea staphylina*, *Asphondylia*, galls 7567

Iponemus gaebleri

- hosts, *Ips typographus* 1836
- Sweden 1836

Iprobenfos

- residues
- lakes 5217
- rice, commodities 10036

Iprodione, effects, *Phytoseiulus persimilis* 8630

Ips acuminatus

- biology, behaviour 11848
- Europe 11848
- forest trees, Poland 4037
- natural enemies 4037
- pheromones, synthesis 8909
- physiology, environmental factors 40
- Pinus sylvestris*, Norway 11848

Ips avulsus

- Monochamus titillator*, interactions 8898
- Pinus taeda*, Texas 8898

Ips calligraphus

- Ereynetes propescutulis*, interactions 12
- fertilizers, effects 10044
- Monochamus titillator*, interactions 8898
- Pinus elliotii*, wood 10044
- Pinus taeda* 5015
- Texas 8898
- rearing techniques 5015

Ips cembrae

- Ceratocystis laricicola*, transmission 5065
- Larix*, UK 5065
- Larix leptolepis*, damage 7931

Ips confusus

- Ereynetes propescutulis*, interactions 12
- pheromones 8870
- Pinus*, USA 8870
- predators 8870

Ips duplicatus

- forest trees, USSR 7065
- monitoring, traps 7065

Ips erosus (see *Orthotomicus erosus*)

Ips grandicollis

- Monochamus titillator*, interactions 8898
- pathogens 11074
- Pinus taeda*, Texas 8898

Ips lecontei

- pheromones 8870
- Pinus ponderosa*, Arizona 8870
- predators 8870

Ips paraconfusus

- biology, behaviour 11847
- growth regulators, effects 7061
- pheromones 131, 8870
- Pinus coulteri*, California 8870
- Pinus ponderosa* 7061
- predators 8870

Ips perroti

- forest trees, Manitoba 7055
- pathogens 7055, 8844
- Pinus banksiana*, Manitoba 8844

Ips perturbatus

- pathogens 6085
- Picea mariana*, Manitoba 6085

Ips pini

- Ereynetes sinescutulis*, interactions 12
- fungi, interactions 1774
- pheromones 3007, 8870, 10955
- Pinus resinosa*, Wisconsin 10955
- predators 8870, 10955

Ips schmutzenhoferi

- biology, development 3017
- forest trees, Bhutan 3039

Ips schmutzenhoferi cont.

- Ips stebbingi*, differentiation 3039
- Picea abies* 3017
- Picea spinulosa*, Bhutan 3017
- taxonomy, new species 3039

Ips sexdentatus

- biology 8818
- control 8818
- forest trees, Turkey 2950
- fungi, interactions 9980
- mites, phoresy 9980
- pheromones, synthesis 8909
- Pinus*, France 8818
- Pinus sylvestris*, France 7963, 9980
- plant pathogens, transmission 7963

Ips stebbingi, *Ips schmutzenhoferi*, differentiation 3039

Ips typographus

- attractants 2984, 9982, 11854
- Austria 1849
- bioassays 4035
- biochemistry, alcohols 787
- biology 4249, 7929, 11850
- behaviour 791, 11840-11841, 11847
- diapause 1849
- migration 4250
- reproduction 5011
- coniferous forests, Europe 1836
- control, trapping 11852-11854
- distribution, USSR 2948
- ecology, population dynamics 8918, 11836, 11838, 11848-11849
- ectoparasites 1836
- forest trees 2948
- Denmark 2984
- Europe 11850
- interactions, models 11839
- Norway 9982
- Sweden 10946
- USSR 7065
- fungi, interactions 787, 5023
- German Federal Republic 2995
- mites, phoresy 10946
- monitoring 11841
- traps 791, 801, 2995, 4249-4250, 7065, 11840
- Norway 11840-11841, 11848
- Ophiostoma*, interactions 7929
- pathogens 4250
- pheromones 2229, 3025, 7064, 7929, 11839, 11845
- attractants, *Thanasimus formicarius* 4044
- physiology, secretions 11845
- Picea* 1849
- Norway 11853
- Scandinavia 11854
- Sweden 11852
- wood 2229
- Picea abies* 787, 5011
- Belgium 2991
- Denmark 801, 3025
- interactions, models 11838
- Norway 8918
- Sweden 791, 4249, 11845
- plant extracts, effects 4035
- sampling 2991
- Scandinavia 11836
- Sweden 4250
- USSR 7064

Ips typographus japonicus

- ecology, population dynamics 1850
- Picea*, Japan 1850

Ipsdienol

- attractants
 - Dendroctonus terebrans* 8874
 - predatory insects 10955
 - mixtures
 - attractants, *Ips typographus* 2984, 9982
 - control, *Orthotomicus erosus* 2950
 - pheromones, *Ips typographus* 7064
 - pheromones
 - Ips paraconfusus* 131
 - Ips pini* 10955
 - Orthotomicus caelatus* 10010
- Ipsenol**
- attractants, *Dendroctonus terebrans* 8874
 - mixtures, attractants, *Ips typographus* 2984

Ipsenol cont.

- pheromones
 - Ips paraconfusus* 131
 - Orthotomicus caelatus* 10010
 - Scolytidae 1377
- Ipslure**, attractants, *Thanasimus formicarius* 2990
- Iran**
- Aphididae 9639, 10663
 - Bregmatothrips bournieri* 4683
 - Chilo suppressalis* 434, 3694
 - Chrysopidae 148
 - Cleoninae 6477
 - Cyampophila dicora*, parasitoids 2529
 - Cydia pomonella* 492, 554
 - Diaspidiotus prunorum*, parasitoids 493
 - Eurygaster integriceps* 3650
 - parasitoids 3649
 - figs, arthropod pests 566
 - Hemiptera 147
 - Heteroptera 175
 - Leptinotarsa decemlineata* 9830
 - Leucoptera malifoliella* 3749
 - Lixus incanescens* 684
 - lucerne, insecticide residues 479
 - Lycaenidae 6472
 - Nabidae 6473
 - Nipaecoccus filamentosus* 3804
 - Pentatomidae, parasitoids 341
 - Pentodon idiota* 363
 - Propomacrus bimacronatus* 7440
 - Pseudaulacaspis pentagona* 6112
 - Schistocerca gregaria* 1219
 - Spodoptera exigua*, natural enemies 3370
 - stored products pests 7088
 - sugarbeet, pests 3896
 - Zyginella pulchra* 3778

Iraq

- Aleyrodidae, predators 4529
- Anarsia lineatella* 4705
- Aphis fabae* 627, 8695
- Aphis intybi* 6990
- Aphis punicae* 6844
- Cucurbitaceae, fields, predatory arthropods 4836
- Cydia pomonella* 5721
- Cynipidae 7078
- Delia coarctata* 6457
- Dermestes* 848
- Dysaphis pyri*, natural enemies 5736
- Ectomyelois ceratoniae* 5756
- parasitoids 5483
- Ephestia calidella* 2702
- greenhouse crops, arthropod pests 5162
- Lepidoptera 1205
- Limax marginatus* 4565
- Myzus persicae* 8705
- Noctuidae 5163
- Phthorimaea operculella* 697-698
- rivers, pollution, indicator species 163
- sesame, insect pests 1723
- Sitotroga cerealella* 6043
- Stephanitis pyri* 7731

Irbisia brachycera

- grasses, Utah 3729
- predators 3729

Iridescent viruses

- genetics, genome analysis 4125
- hosts, *Chilo* 4116-4117, 4125

Iridomyrmex

- Australia 1231
- biology, environmental factors 1231

Iridomyrmex anceps group, *Jalmenus evagoras*, interactions 1814

Iridomyrmex humilis

- attractants 9383
- biochemistry, carbohydrates 9387
- biology 9391, 11426
- behaviour 201, 7487, 8366, 10416
- control
- insecticides 11280
- physical control 4720
- diets 9383
- distribution
- Bermuda 2424
- Chile 10424
- South Africa 2417
- France 9390-9391, 11426
- grapes, South Africa 4720
- hosts, Lepidoptera 8366

Iridomyrmex humilis *cont.*
 morphology, larvae 10399
Pheidole megacephala, interactions 2424
 physiology 9390
 prey, Lepidoptera 5550
 rearing techniques 9383
Saissetia coffeae, interactions 3805
 Western Australia, reports 11280

Iridomyrmex purpureus sanguinea
Amitermes laurensis, interactions 11476
 Queensland 11476

Iridomyrmex sanguineus (see *I. purpureus sanguinea*)

Iridoviridae, hosts, *Chilo suppressalis* 4121

Irish Republic
Aglais urticae 11365
Cacoecimorpha pronubana 2353
 Diptera 2349, 7264
Ectoedemia argyropeza 840
Heterodispus curryi 7683
 Lepidoptera 7415, 9338
 books 1003, 8166
 marine areas, insecticide residues 4204
Megaselia 7263
 Orthopteroidea, books 7255
Phorodon humuli 2579
 plant sciences, reports 9138
 Pompilidae 7261
Psila rosae 686
 Tephritidae 7262

Iron
 chelates, control, *Deroceras reticulatum* 954
 pollutants
 forests 5054
 Sphingidae 1835
 residues
 Diprionidae 5977
 forest pests 9958
 salts, toxicity, *Deroceras reticulatum* 8405

Irrigation
 control, *Pectinophora gossypiella* 10862
 effects, *Diatraea saccharalis*, natural enemies 4605

Irrigation systems, *Selenisa sueroides*, damage 7489

Isazofos (*O*-[5-chloro-1-(1-methylethyl)-1*H*-1,2,4-triazol-3-yl] *O,O*-diethyl phosphorothioate)
 control
Costelytra zealandica 11598
Heteronychus arator 470
 Scarabaeidae 9626
 residues, soil 11598

Isazophos, effects, *Costelytra zealandica* 11597

Ischiodon, prey, *Brevicoryne brassicae* 9763

Ischiodon scutellaris
 biology 9763
 development 1308
 Indian mustard, fields, India 2810, 6873
 parasitoids 6873
 prey
 Aphididae 2810
Rhopalosiphum maidis 1308

Ischnaforinia bambusicola
 bamboos, China 3642
 taxonomy, new species 3642

Ischnaspis longirostris, coffee, Cuba 10878

Isocolus verbenacus
 biology 7891
Salvia
 galls 7891
 Spain 7891
 taxonomy, new species 7891

Isodontia mexicana
Arundo donax, Europe 2586
 prey, *Oecanthus pellucens* 2586

Isodromas monterai
 hosts, *Anacraga* 2444
 parasitoids 2444
Ricinus communis, fields, Brazil 2444

Isofen, toxicity, *Cycloneda sanguinea* 9453

Isofenphos (1-methylethyl 2-[[ethoxy[(1-methylethyl)amino]phosphinothioyl]oxy]benzoate)
 control
Atherigona soccata 7666
Cavelerius sweeti 4606, 4610
 Coleoptera 1698
Delia antiqua 6939
Diabrotica virgifera 9567
Maladera matrida 3909
Psylliodes chrysocephala 3850
Scirpophaga incertulas 3688
 degradation, soil 7225, 9567
 herbicides, interactions 9567
 mixtures
 control, *Maladera matrida* 3909
 toxicity, *Heterorhabditis bacteriophora* 8981
 nontarget effects, rabbits 3185
 residues
 determination 11984
 groundwater 11984
 toxicity, *Perdix perdix* 2045
 with herbicides, control, *Diabrotica* 4647
 with thiram
 control
 Coleoptera 2803
Psylliodes chrysocephala 3850

Isoleucine, kairomones, *Ascogaster reticulata* 234

Isomera cinerascens (see *Pseudogonia rufifrons*)

Isoplectron
 biology, behaviour 8849
 forest trees, New Zealand 8849
 predators 8849

Isopoda
 ecology 1554
 Europe 5377
 meadows, Switzerland 463
 metals, detoxification 10376
 molluscicides, effects 463
 orchards, USSR 1554
 physiology, chemical composition 5377
 pollution, effects 5377
 predators 10376
 Saudi Arabia 11390

Isoprocab (2-(1-methylethyl)phenyl methylcarbamate)
 control
Amrasca biguttula 601, 2793
Hieroglyphus banian 3713
Laodelphax striatella 1474
Nephotettix virescens 9584
Nilaparvata lugens 3163
 rice, insect pests 10628
 rice tungro virus, vectors 9583
 nontarget effects, beneficial arthropods 3163
 residues, rice, fields 7207

(3*S*,6*R*)-6-Isopropenyl 3-methyl 9-decenyl acetate
 pheromones, *Aonidiella aurantii* 3293
 synthesis 3293

(3*R*,9*Z*)-6-Isopropenyl-3,9-dimethyl-3,9-decadien-1-ol
 mixtures, pheromones, *Pseudauleacaspis pentagona* 8627
 pheromones, *Pseudauleacaspis pentagona* 8627

(3*R*,9*Z*)-6-Isopropenyl-3,9-dimethyl-3,9-decadienyl propionate
 mixtures, pheromones, *Pseudauleacaspis pentagona* 8627
 pheromones, *Pseudauleacaspis pentagona* 8627

(*Z*)-2-Isopropenyl-1-methylcyclobutaneethanol, mixtures, pheromones, *Anthonomus grandis* 65

Isopropyl alcohol, mixtures, attractants, Scolytidae 2347

Isoprothiolane
 control, *Nilaparvata lugens* 4670
 residues
 lakes 5217
 rice, commodities 10036

Isoptera
 Africa 1350, 5522
 America 4548
 apricots, India 11654

Isoptera *cont.*
 Australia 10482
 bamboos 1417
 bibliographies 8155
 biology 6241, 7259, 10177, 10189
 behaviour 3576, 10217
 reviews 5505
 nests 5518
 buildings, Florida 3576
 cereals, Africa 2591
 Chile 5231
 China, books 10175, 10177
 conferences 10217
 control 831, 1417, 2613, 3576, 5513, 7256, 7259, 10175, 11873
 insecticides 863, 3447, 3944, 4548, 7302, 8394
 mineral oils 1908
 reviews 11477
 crops, Brazil 7259
 East Africa 1365
 ecology 1345
 environmental factors 1350
 population dynamics 1349, 2522, 5506, 5519
 evolution 10189
 food plants
 Kenya 5513
 Nigeria 5508
 forest trees
 reviews 831
 Solomon Islands 838
 Formicidae, interactions 10192
 fungi, interactions 6241, 8999
 grasslands, Ghana 2522
 habitats, Peru 8922
 India 12021
 indicator species, soil properties 5522
 Israel, books 1173
 Kenya 5518, 8397
 litter (plant), Kenya 5506
 maize, yield losses 2591
 microorganisms, interactions 9464
 Mississippi 5378
 mites, interactions 7515
 morphology, glands 10247
 mounds, composition 8397
 museum specimens, India 11873
 Myrmecozelinae, interactions 11253
 Nematoda, interactions 10482
 North America 9463
 pests, *Caloglyphus berlesei*, Brazil 6452
 pheromones 8161
 reviews 7341
 Phoridae, interactions 10485
 physiology, digestion 9464
Pinus roxburghii, wood, Pakistan 863
 plant extracts, effects 1794, 1908
 predators 3506
 sampling 1348
 savannas, Africa 5509
 soil, interactions 5512
 sugarcane, America 10549
 taxonomy 9463, 10177
 tea, Sri Lanka 3955
 tobacco, Zimbabwe 3944
 trees, India 1779
 tropics 1348
 conferences 6241
 USA 8394
 wheat, India 2613
 wood 3447
 Italy 8960
 Pakistan 1794

Isoquercitrin
 synergism 11170
 toxicity, *Heliothis virescens* 11170

Isorhipina, taxonomy, synonyms, of *Euphoria* 1039

Isotima javensis
 Gramineae, habitats, India 9527
 hosts, *Scirpophaga excerptalis* 9527

Isotoma viridis, urban areas 1190

Isovaleric acid, attractants, *Oryzaephilus* 8153

Isoxathion (*O,O*-diethyl *O*-(5-phenyl-3-isoxazolyl) phosphorothioate)
 residues, tea 770

3-Isoxazolyl methanesulfonate, toxicity, *Locusta migratoria* 8090

Israel

- Agromyzidae 11783
- Aleyrodidae 743, 2148
 - crops, conferences 997
- Anthocoridae 1182
- Aonidiella aurantii* 7744
- Aphididae 1855
 - parasitoids 1760
- Aphis gossypii*, parasitoids 1737
- Aphis spiraeicola*, pathogens 7143
- Apis mellifera*, ectoparasites 1255-1256
- Aploneura lentisci* 6668
- apples, orchards, predatory mites 4747
- Ascottia selenaria* 4775
- Batrachedra amydraula* 1544
- Bemisia tabaci* 4972
- Braconidae 1320-1321
- carinations, arthropod pests 10884
- Ceratitis capitata* 8646
- Ceroplastes floridensis*, parasitoids 3811
- Citrus, Hemiptera 2763
- Corythucha ciliata*, introduction, estimation 4973
- cotton
 - arthropods, books 7274
 - insect pests 8781
- crops, pest control 11682
- Cynipoidea 1322
- dates, plantations, beneficial arthropods 4711
- Deroceras laeve* 6622
- Dialeurodes citri* 7751
 - parasitoids 11663
- Diaspididae 488
- Diptera, books 1174
- entomology, conferences 998
- field crops, pest control 4806
- Frankliniella occidentalis* 4974
- fruits, pest control 4708-4709, 4770, 11613
- Helicoverpa armigera* 7860
- Heliopsis* 4928
- Hyalesthes* 9645
- Lepidoptera, parasitoids 10719
- maize, pest control 405
- Maladera matrida* 2691, 3909
- Matsucoccus josephi* 1805, 10916
- Noctuidae 2783
- ornamental plants, pest control 11784
- pears, pest control 7737
- pest control
 - pesticides 5166
 - reviews 1375
- Phyllonorycter quercus* 3990
- plants, pollinators 6993
- Prays citri* 9723
- Rhopalocera, books 7275
- Scolytidae
 - natural enemies 9938
 - predators 5045
- Slavum wertheimae* 5921
- snails 10495
- social insects, books 1173
- Sparassidae 10467
- Tephritidae 10241
- Theresimima ampelophaga*, parasitoids 2445
- tomatoes, arthropod pests, natural enemies 10847
- vegetables, pest control 4807
- wheat, commodities, insect pests 11038
- Xylocopa pubescens* 10348
- zoology, conferences 9129

Israelaphis

- morphology, digestive system 9179
- taxonomy 9179

Israelaphis carmini

- morphology, digestive system 9179
- taxonomy 9179

Israelaphis lambersi

- morphology, digestive system 9179
- taxonomy 9179

isurgus heterocerus (see *Tersilochus heterocerus*)

- Italian ryegrass** (see *Lolium multiflorum*)
- Italochrysa aequalis*, distribution, India 1338

Italy

- Aceria caulobius*, predators 3628
- Aculus schlechtendali*, predators 2734

Italy cont.

- Aesalus scarabaeoides* 9957
- Agromyzidae, parasitoids 11779
- Agrotis* 7609
- Aleyrodidae 2367
 - parasitoids 2760
- Alnus cordata*, insect pests 11802
- Aloephagus myersi* 8800
- Amblyseius andersoni* 2735
- Amyeloidis transitella* 7994
- Aphididae 10841, 11607
 - natural enemies 9631
- Apis mellifera* 962
 - ectoparasites 3536, 7524
- apples, arthropod pests 5728
- Apterona crenulella*, parasitoids 3502
- Arachnida 2351
- Archips rosanus*, parasitoids 556
- arthropods, pathogens 3096
- Arytainilla barbagalloi* 11515
- Athetis hospes* 5895
- Bactrocera oleae* 11668-11669
- Brachycorynella asparagi* 8664
- Braconidae 9405
- Bryobia cavalloroi* 11517
- Cacopsylla pyri* 1566, 2747
 - predators 8622
- Capparis spinosa*, arthropod pests 9745
- Carica pentagona*, arthropod pests 6826
- Charaxes jasius* 1131
- chestnuts, Acari 11632
- chicory, arthropod pests 4816
- Chrysomelidae 9334
- Cicadellidae 2750
- Citrus
 - Aleyrodidae, parasitoids 3816
 - arthropod pests 2766, 8641
 - insect pests, parasitoids 2765
 - pest control 6831, 7748
- Coccidohystrix zangherii* 9151
- Coccoidea, bibliographies 9285
- Comperiella lemniscata*, hosts 11661
- Corythucha ciliata* 2980, 8807
- Cossus cossus* 557
- Crambinae 3406
- crops
 - arthropod pests 11620, 11635-11637, 11655
 - insect pests 2555-2556, 3129
 - pest control 6130, 12036
 - research, reports 10220
- Curculio vicetinus* 9952
- Curculionoidea 9343, 11387
- Diphyllaphis mordwilkoii* 2979
- Dryinidae 11450
- Elatridae 2350
- Encarsia* 9404
 - entomology, museums 6249
- Ephippiger* 6372
- Epitrix hirtipennis* 9890
- Eulachnus intermedius* 7032
- Euphorbia esula*, natural enemies 4586
- Euproctis chrysorrhoea*, parasitoids 5970
- Eyprepocnemis plorans* 190
- fishes, pesticide residues 10132
- food, insecticide residues 7082
- forests, soil, Coleoptera 2983
- fruits
 - arthropod pests 11621, 11640
 - insect pests 3134
- Galerucella nymphaeae*, pathogens 8021
- Glischrochilus quadrisignatus* 8298
- grapes
 - arthropod pests 2713
 - mites 6228
 - pest control 11627
- greenhouse crops, pest control 3135, 9017
- Halictidae 2131
- hazelnuts, arthropod pests 7718
- hedgerow plants, insect pests 5570
- Helix* 2543
- Heterarthrus* 3994
- Heterocera 9336
- Heteroceridae 5567
- Homotoma viridis* 9700
- Hyphantria cunea* 5960
- Icerya purchasi*, predators 9016
- insecticides, usage 6149-6150

Italy cont.

- insects 3412
 - pathogens 3095
- Kampimodromus aberrans*, prey 5715
- Lepidoptera, pathogens 3097
- Leptinotarsa decemlineata*, parasitoids 731
- lettuces, insecticide residues 9749
- Liriomyza trifolii* 5686
- Lobesia botrana* 7742, 8565, 9660
- Lygaeus equestris*, natural enemies 7569
- Lymantria dispar* 7956
- maize, pest control 7611, 8483
- mites 2554
- Monoarthropalpus buxi* 4019
- Monoctenus juniperi* 5387
- Myrmelionidae 580
- Myzocallis coryli*, parasitoids 3772
- Neuroptera, prey 3500
- Noctuidae 8288, 9889
- Ooencyrtus pityocampae*, hosts 5933
- ornamental plants, Lepidoptera 2944
- Ostrinia nubilalis* 2893, 11540, 11609
- parasitoids 11542
- Pachypasa otus* 7321
- Panonychus ulmi* 6811
 - predators 520, 5735, 6811
- Papilio machaon* 3366
- peaches
 - pest control 8628
 - conferences 5238
- pears, arthropod pests 8621
- pesticides
 - information 10115
 - man, effects 11184
- Phagocarpus purmundus* 11516
- Phillyrea latifolia*, insect pests 2981
- Phyllonorycter* 3776
- Phyllonorycter pomonella* 6823
- Phytoseiidae, prey 9665
- plant diseases, vectors 3088
- plant protection, conferences 10205
- Platypalpus* 3425
- Polyphagotarsonemus latus* 5773
- pome fruits, pest control 6804
- Populus*, insect pests 5966
- Prays oleae* 8651
- Pseudaulacaspis pentagona*, natural enemies 2751
- Pseudoscorpiones 11385
- Reticulitermes lucifugus* 283
- Rhopalocera 2360, 9335
- Rhyacionia buoliana* 5934
- Rumex crispus*, natural enemies 5575
- Saissetia coffeae* 3805
- Saltatoria 5416
- Scaphioideus titanus* 2712
- Scarabaeus semipunctatus*, ectoparasites 5459
- Scopula minorata* 7892
- Sitobion avenae*, pathogens 2604
- soil, invertebrates 5408
- strawberries, pest control 2704
- sugarbeet
 - insect pests 10818
 - pest control 8729
- Syrphidae 2489
- Tachinidae 7434
 - hosts 4516
- Tegolophus califraxini* 3996
- Tenthredininae 8197
- Tephritidae, conferences 1021, 4240
- Tetranychus urticae*, predators 7785
- Thaumatopoea*, parasitoids 5932
- Thaumatopoea pityocampa* 2978
 - parasitoids 5002
 - pathogens 8850
- Theresimima ampelophaga*, Italy 519
- Thripidae 9921
- Thymus*, arthropod pests 11523
- tobacco, Lepidoptera 9888
- Tortricidae 536, 9333
- Tortrix viridana* 5969
- Trachytes* 5967
- Trioxys angelicae*, hosts 11448
- Tyrophagus similis*, predators 9746
- Udea ferrugalis* 7803
- vineyards
 - arthropods 4723
 - mites 5711

Italy cont.

- Volucella* 9418
wood, insect pests 8960
Zonitoides nitidus 6996
Zygaena 1142
Zyginidia pullula, pathogens 3672
Itame varadaria
biology 5557
control, *Baccharis halimifolia*, evaluation 5557
food plants, Texas 5557

Ithome lassula, *Leucaena leucocephala*, Florida 7058**Ithomiinae**

- morphology, wings 5280
taxonomy 5254

Itoplectis conquisitor

- hosts
Mythimna unipuncta 6536
Thyridopteryx ephemeraeformis 3008, 8899
Juniperus virginiana, forests, Virginia 3008, 8899
Quebec 6536

Itoplectis enslini

- hosts, Lepidoptera 2982
Quercus, forests, Romania 2982

Ivermectin (22,23-dihydroavermectin B₁)

- books 11247
effects, *Apis mellifera* 6523

Ivory Coast

- Achatina fulica* 5537
Ancistrotermes cavithorax 10486
Coleoptera, parasitoids 4465
cotton, Lepidoptera 8774
Curculionidae 8654
Drosophila spinifrons 11617
Eriophyidae 6784
Eurytomidae 3514
legumes, insect pests, parasitoids 2486
Macrotermes 9461
Macrotermes bellicosus 284, 5524
Macrotermitinae 5520-5521
maize, Lepidoptera 10594
man
insecticides, effects 11995
pesticides, effects 9081
Phenacoccus manihoti, parasitoids 6934
Sphingidae 4388
Stylosanthes guianensis, insect pests 1522

J-2581 (see 5-Ethoxy-6-(4-methoxyphenyl) methyl-1,3-benzodioxole)**J-2710** (see 5-Methoxy-6-[1-(4-methoxyphenyl) ethyl]-1,3-benzodioxole)**Jack pine** (see *Pinus banksiana*)**Jacobiasca lybica**

- control, insecticides 6967
cotton, Sudan 6967

Jadera haematoloma

- biology 5950
predators 5950
trees, Oklahoma 5950

Jalmenus evagoras

- Acacia*, Queensland 1814
Acacia spectabilis 11809
Iridomyrmex anceps group, interactions 1814
physiology, nutrition 11809

Jalmenus evagoras evagoras, *Acacia*, Victoria 1874**Jalysus wickhami**

- cotton, fields, Mississippi 1734
insecticides, effects 4946
prey, *Lygus lineolaris* 1734
tobacco, fields, North Carolina 4946

Jamaica

- Asphondylia boerhaaviae*, parasitoids 1386
Fossispa lutena 4678
Oedancala cladiumicola 11591
Rhopalosiphum maidis 6717

Janetiella pyrifomis

- biology 4531
habitats, Switzerland 4531
prey, Nematoda 4531
taxonomy 4531

Janetiella thymi, *Thymus*, Italy 11523**Jantar** (see *Sesbania aculeata*)**Janus**, taxonomy 2954**Janus quercusae**

- Quercus nuttallii*, USA 2954
taxonomy, new species 2954

Japan 4902

- Acaridae 1606
Achaearanea tepidariorum 5410
Acyrtosiphon pisum 7795
Andricus mukaigawae 1867
Anemone coronaria, plant viruses, vectors 5565
Anoplonyx orientis 2970
Anoplophora malasiaca 5748, 9704, 9709
Aphididae 3657, 9846, 9909
predators 2679, 5492
Aphis gossypii 1374, 7761, 9741
predators 1225
Archidispus 9407
Archips fuscocupreanus 3797
Argopistes coccinelliformis 8802-8803, 9288
arthropod pests, laboratories, colonies 1013
Asphondylia 2697, 3884
Athalia 1026
Athalia rosae, parasitoids 2466
Aulacorthum solani 3905, 5563
Autographa gamma 3372, 5792, 7680, 7894
Bactrocera 3750
Bactrocera cucurbitae 4162, 5745, 6133
Bombyx mori, pathogens 6094
Brevicoryne brassicae 620
Bruchidae, legumes, conferences 11270
Camponotus kiusiensis 2584
Camponotus nawai 9380
Carposina sasakii 7125
Cavelerius saccharivorus 5587
Cephalcia isschikii 1811
Ceratovacuna japonica, predators 8442
Ceratovacuna nekoashi 3022
cereal grains, insecticide residues 7105
Chalcididae 5444
Chilo suppressalis 7638
Chironomidae 1418
Chironomus kienensis 452
Chrysomelidae 2953
Cinara tujafilina 7930
Citrus, Hemiptera 2764
Cletus punctiger 2658
Cnaphalocrocis medinalis 3708-3710, 9587
Coccinellidae, prey 9632
Coccus pseudomagnoliarum, parasitoids 2756
Coleoptera 1059
Crioceris 5777
Cryptostigmata 5928, 10016
Curculionidae 1044, 4277
Cybocephalus gibbulus, natural enemies 6833
Cydia dimorpha 3802
Damaster 8346
Delphacidae 3704, 5643, 10104
Dendrolimus punctatus 7012
Deporaini 8
Dichocrocis punctiferalis 5741
Diptera 3415
Drosophila albomicans 3417
Drosophila funebris 125
Drosophila melanogaster 4092
Dryocosmus kuriphilus, parasitoids 7022, 9672, 9936
Elasmucha putoni 540
Encyrtidae 4540
Epilachna 1385, 3622
Eriosoma 9940
Eupromus ruber 9934
Eurydema rugosa 3858
Formicidae 2410, 5432
Gastrophysa atrocyanea 3428
Geometridae 1761
Gigantomiris jupiter 1810
Glyphina pseudoschrankiana 5000
Graptopsaltria nigrofusca 9948, 10091
Gryon 11465
Haplogonatopus atratus 3566
Homonia axyridis, prey 3803
Hellula undalis 4832

Japan cont.

- Hemiberlesia pitysophila*, parasitoids 5951
Hemiptera 3706
Hesperiidae 6750
Hydraecia mongoliensis 5858
Ichneumonidae, hosts 243
Idiococcus bambusae, parasitoids 1419
insecticides, registration 11213
insects, migration 3390
insects as food 1355
Ips typographus 1850
Picea 1850
kiwifruits, insect pests 11658
Kurisakia ailanthi 1840
Kytorhinus sharpianus 1918
lakes, insecticide residues 5217
Laodelphax striatella 5644
parasitoids 3564-3565
Liriomyza bryoniae 4839
Lissorhoptus oryzophilus 9586, 9588
logs, Coleoptera 4078-4079
lucerne, Lepidoptera, pathogens 1535
Lycenidae, parasitoids 2957
Lymantria dispar, predators 1170, 1842
maize, insect pests 3679-3681, 7610
Mamestra brassicae 3857, 3895
man, insecticide residues 3183
mandarins, insect pests, natural enemies 11665
Matsumuraes phaseoli 10804
Microvelia 10465
Monochamus alternatus 7027, 7927, 9928, 9945
Mycophila 10020
Myrmica 9378
Mythimna separata 927, 3386-3389, 3702-3703, 5370-5371, 5669-5670, 5687
Myzus persicae 10851
Neodiprion sertifer 9944
Neoseiulus longispinosus 9900, 10882
Nephotettix cincticeps 3705, 10110
parasitoids 435, 5645
Nezara 2815
Nilaparvata lugens 9585, 10103
Noctuidae 5383, 9799
Omphisa anastomosalis 9836
oranges, arthropods 6828
Oxya yezoensis 3711, 7471
Papilio 123
Pemphigus 9939
Penthaleus major 9610
Phthorimaea operculella 2870, 7349
Phyllaphis fagi 7907
Phyllocnistis citrella, parasitoids 1581
Phyllonorycter, natural enemies 5014
Phytomyza lonicerae, parasitoids 5569
Pieris, parasitoids 3845, 9760
Pieris rapae 2808
parasitoids 6869
Plutella xylostella 3373, 4831, 4833, 5362, 6404, 7779, 8670, 10106
natural enemies 7768
parasitoids 6880
Pomacea canaliculata 449
Ponticulothrips diospyrosi 7423, 7437
Pristiphora harai 10009
Pristomyrmex pungens 2420
Psacothia hilaris 7729
Pselaphidae 5952
Pyralidae 1286, 9747
Quercus, Lepidoptera, parasitoids 10972
Rhynchaenus, parasitoids 2454
rice
fields, invertebrates 11571
Hemiptera, parasitoids 1491
insect pests 10628
Riptortus clavatus 6879
parasitoids 8692
rivers
insecticide residues 6203
pesticide residues 6202
Scarabaeidae 5772, 9470
Schizotetranychus 9947
Scirtothrips dorsalis 9705, 10679
Scolytotypus shogun 3072
sea water, insecticide residues 9094
Semanotus japonicus 9943, 10995

Japan cont.

- Similipepsis takizawai* 9148
Sitodiplosis mosellana 9534
Sogatella furcifera 7422, 7652
 soil
 bacteria, insecticides, degradation 4206
 insecticides, degradation 4205
Spodoptera exigua 9843, 10839
Stegobium paniceum, predators 9448
Stenomelissa 1032
Stenotus rubrovittatus 3728
 sweet potatoes, Coleoptera 9837
 Symphyta 1860
 tea, insecticide residues 770
 Tetranychidae 9748
Tetranychus kanzawai 3748
Tetranychus quercivorus 11826
Tetranychus urticae 3790
Thecodiplosis japonensis 7912, 9929-9930
Thrips palmi 4907
 pathogens 6878
 Thysanoptera 9526
Toxoptera odinae, natural enemies 1863
Trialeurodes vaporariorum 5706
 greenhouse crops 5706
Trigonotylus coelestialium 3707
Unaspis yanonensis
 natural enemies 6832
 parasitoids 9703
Vespa simillima 120, 9439
 woodlands, soil arthropods 7030
Xanthodes transversa 1611
Xylotrechus pyrrhoderus 2711
Japanese alder (see *Alnus japonica*)
Japanese black pine (see *Pinus thunbergii*)
Japanese cedar (see *Cryptomeria japonica*)
Japanese chestnut (see *Castanea crenata*)
Japanese pear (see *Pyrus pyrifolia*)
Japanese quails, insecticides, effects 7213
Jasminum nudiflorum, pollen, diets,
 Neoseiulus fallacis 4497
Jasminum rigidum, *Orthezia insignis*,
 India 3979
Jasminum sambac, *Contarinia*, India 4977
Jassidae (see Cicadellidae)
Jatropha curcas, extracts, control,
 Phthorimaea operculella 1898
Javesella pellucida
 ecology, population dynamics 9545,
 9611
 grasslands, UK 9545, 9611
Johnson grass (see *Sorghum halepense*)
Jojoba (*Simmondsia chinensis*)
 habitats, Braconidae, USA 3921
 insect pests, USA 3921
Jordan
 Aphididae 5392, 10366
Cinara cupressi, predators 1828
Euphyllura olivina 6842
Juglandaceae, *Teleopsis* 2128
Juglans
 Aphididae, Czechoslovakia 4011
 Enchenopa binotata complex, USA
 5957
Juglans cinerea, *Eriocampa juglandis*,
 Alabama 5039
Juglans mandschurica, *Gigantomiris jupiter*,
 Japan 1810
Juglans nigra
 Chymomyza amoena, USA 10711
 Colaspis favosa, Virginia 11796
 Eriocampa juglandis, Alabama 5039
 fruits, *Rhyzopertha dominica* 11874
Jujube witches' broom, vectors,
 Hishimonus sellatus 10739
Jujube witches' broom virus, vectors,
 Hishimonus sellatus 11657
Juniperus
 Haematoloma dorsatum, damage 5968
 insect pests, Morocco 5984
Juniperus californicus, *Hippomelasma*
 jeanae, California 3982
Juniperus chinensis, *Gootiella tremulae*,
 Sweden 11804
Juniperus communis
 arthropods, UK 827
 Gootiella tremulae, Sweden 11804
 Pseudopsocus rostocki, Spain 8830

- Juniperus excelsa*, wood, Isoptera, damage 1794
Juniperus horizontalis var. *glauca*, *Gootiella tremulae*, Sweden 11804
Juniperus monosperma
 insect pests 7902
 Styloxos bicolor, Arizona 9935
Juniperus nana, *Coccidohystrix zangherii*,
 Italy 9151
Juniperus oxycedrus, Psocoptera, Spain 8830
Juniperus sabina, *Aploneura juniperi*,
 Sweden 11804
Juniperus scopulorum, *Dichroscytus*, Col-
 orado 1864
Juniperus thurifera
 Lepidoptera
 Morocco 4999
 Spain 7906
 Opipiidae, Spain 11863
Juniperus virginiana
 forests, *Itoplectis conquisitor*, Virginia
 3008, 8899
 Thyridopteryx ephemeraeformis, Vir-
 ginia 3008, 4996, 8899
Junonia coenia
 biology, migration 5402
 carbon dioxide, effects 11376
 controlled atmospheres, effects 338
 diets 2316
 Florida 5402
 glycosides, effects 2316
 monitoring, traps 5402
 morphology, wings 10263
 Plantago lanceolata 338, 11376
Junonia villida calybe, food plants, New
 South Wales 2559
Jute (*Corchorus capsularis* and *C.*
olitorius)
 arthropod pests
 India 12021
 Pakistan 2928
 fields, parasitoids, Pakistan 1744
 Lepidoptera, Pakistan 1744
 Maconellicoccus hirsutus 6457
 Myllocerus coimbatorensis, India 2969
 pathogens, insecticides, effects 8783
 Spilosoma obliqua 5892
Juvenile hormone analogues (see also
 Insect growth regulators)
 effects
 Episyrphus balteatus 2480
 Eumeta variegata 5297
 insects 10156
 pest control, reviews 4217
 structure activity relationships 8148
 synthesis 10156, 11235
Juvenile hormone antagonists
 genetic engineering 7232
 insecticides 6212
 mode of action 9102
Juvenile hormone I
 effects
 Bombyx mori 11496
 Caledia captiva 4303
 Mamestra brassicae 9253
 Spodoptera litura 11325
Juvenile hormone II, effects, *Mamestra*
brassicae 9253
Juvenile hormone III
 activity 1119
 analogues
 effects, insects 10156
 synthesis 10156
Drosophila melanogaster 7353
 effects
 Bombyx mori 11496
 Galleria 7979
 Melanoplus sanguinipes 5419
 Plautia stali 5742
 Galleria mellonella 1119
 physicochemical properties 988
 resistance, *Drosophila melanogaster*
 7231
Juvenile hormones
 Acheta domesticus 7339
 Arcte coerula 5330
 Bombyx mori 1354, 2180, 9252, 11496
 Caledia captiva 4303
 Danaus plexippus 1120

Juvenile hormones cont.

- Drosophila melanogaster* 94, 98, 2270,
 6359, 10311
 esterases
 genetic engineering 7232
 inhibitors 11342
Galleria mellonella 116, 9261, 11328,
 11970
Gryllus bimaculatus 91, 96
Gryllus rubens 4334
 insects 11319, 11342-11343
Leptinotarsa decemlineata 99, 11340
Lymantria dispar 3321
Mamestra brassicae 9253
Manduca sexta 2172, 3325, 5334
 metabolism, assays 94
Pieris brassicae 9251
Scirpophaga incertulas 11177
Trichoplusia ni 53, 3324, 11338
Juvenoids (see Juvenile hormone
 analogues)
K-Othrine (see Deltamethrin)
KA1075 (see 1-[(4-Ethylphenyl)methoxy]-
 4-phenoxybenzene)
KA1205 (see 2,3-Dihydro-2-[(4-phenoxy-
 phenoxy)methyl]-1,4-benzodioxin)
KA1213 (see 1-(3-Ethoxybutoxy)-4-
 phenoxybenzene)
KA1245 (see 1-(2-Ethoxypropoxy)-4-
 phenoxybenzene)
KA1488 (see *N*-Ethylcarbamic acid 2-(4-
 phenoxyphenoxy)ethylester)
KA416 (see 1-[(4-Ethoxy-2-methyl-2,4-
 pentadienyl)oxy]-3-(phenylmethyl)
 benzene)
KA860 (see 5-[(4-Phenoxyphenoxy)
 methyl]-1,3-benzodioxole)
Kabi gram (see *Cicer arietinum*)
Kairomones
 Acrolepiopsis assectella 10748
 Aphis craccivora 5468
 Cryptolestes ferrugineus 7083
 forest trees 11851
 Hyphantria cunea 7526
 insects 1002
 Lepidoptera 4774, 9442
 Lymantria dispar 9403
 Mythimna 10456
 Myzus persicae 5863
 Noctuidae 6234
 Ostrinia nubilalis 5467, 5470, 7525
 Pheidole pallidula 10417
 Unaspis yanonensis 8365
Kalanchoe blossfeldiana, *Talicada nyseus*,
 India 10901
Kalanchoe tomentosa, *Neohydronomus*
affinis 5556
Kale (*Brassica oleracea* var. *viridis*)
Aleyrodes proleptella 4514
 Aphididae, USA 5789
Brevicoryne brassicae
 Massachusetts 613, 11698
 New York 3854
Chromatomyia horticola, India 6871
 fields
 Diaeretiella rapae
 Massachusetts 613
 New York 3854
 Hymenoptera, USA 5789
 habitats, *Diaeretiella rapae* 6573
 insect pests, resistance 9759
 Pieris rapae, California 9771
Kalimantan, Aleocharinae 9450
Kaloterms flavicollis
 biology, reproduction 11483
 genetics, chromosomes 6379
 physiology, reproductive organs 3323,
 6352
Kalotermitidae
 biology, behaviour 3576
 buildings, Florida 3576
 control 3576
 forest trees, damage 831
 taxonomy 3577
 USA 3577
Kaltenbachiola strobi
 biology
 diapause 5995
 environmental factors 5992
 parasitoids 5999

Kaltenbachiola strobili cont.

- Picea abies*
France 5992
USSR 5999
- Kampimodromus aberrans**
apples, orchards, Austria 3796
coniferous forests, France 2958
control, Tetranychidae 4723, 5715
ecology, population dynamics 2726
fungicides, effects 520, 5715
orchards
Austria 2726
USSR 11643
pesticides, effects 3796, 9665
predators 4723
prey
Panonychus ulmi 520
Tenuipalpidae 2958
Tetranychidae 11643
vineyards, Italy 4723, 5715, 9665
- Karanj** (see *Pongamia pinnata*)
- Karate** (see *Lambda-cyhalothrin*)
- Kashmir bee virus**, hosts, *Apis mellifera* 871
- Kashmiria aphidis**
hosts, *Prociphilus* 5012
India 5012
morphology 5012
- Keiferia lycopersicella**
biology, development 4900
control
integrated control 1712
mating disruption 726
food plants 4900
Hawaii 1971
natural enemies 1971
pheromones 726
tomatoes
California 726
Central America 1712
- Kelisiinae**, morphology, reproductive organs 3264
- Kelthane** (see *Dicofol*)
- Kenaf** (*Hibiscus cannabinus*)
arthropod pests, India 12021
commodities, *Oxycaenus hyalinipennis* 6055
Dysdercus koenigii 325
insect pests, India 8768
Lepidoptera, Pakistan 1744
- Kentucky bluegrass** (see *Poa pratensis*)
- Kenya**
Agaonidae 5743
Aleurolobus, hosts 9152
Atherigona dentifolia 6680
birds, insecticides, effects 3194
Bruchidae 7441
Busseola fusca 6743
Chilo partellus 9603
natural enemies 6712
parasitoids 1430
Chloropidae 3212
Coccoidea 10881
entomology, reports 5242-5243
horticultural crops, pest control 6128
Hypatima mangiferae 5767
Hypothenemus hampei, parasitoids 6986
insects, water relations 2330
Isoptera 5506, 5513, 5518, 8397
Macrotermes 5515, 6598, 9461
Macrotermes michaelsoni 11484
predators 5514
Macrotermes subhyalinus 11482
man, insecticides, effects 7198
Mononychellus 2938
Odontotermes 4546
pest control, information 5146
Phthorimaea operculella 8741
Phytoseiidae 1833
Planococcus fungicola 7887
Prostephanus truncatus 3055
Scarabaeidae 10788
ectoparasites 5459
Scirtothrips kenyanensis 9902
sorghum, Lepidoptera, pathogens 6745
Spodoptera exempta 409, 3140
tea, research, reports 11274
Thrips 9513
Tuckerella 4959

Kerosene

- control, *Indarbela* 3825
oils, effects, *Callosobruchus chinensis* 3082
- Kerria chinensis**, biology 297
- Kerria lacca**
biology 6846
ecology 6846
food plants 9932
Moghania macrophylla 10316
physiology, chemical composition 10316
Ziziphus mauritiana, India 6846
- Kerria mysorensis**
Formicidae, interactions 287
India 287
- Kerria sindica**
Albizia lebbek, Pakistan 11494
biology 11494
- Kerriidae**
distribution, Pacific Islands 7273
taxonomy 7273
- Kessleria**, Poland 7442
- Kessleria rufella**, *Ribes*, Poland 7442
- Kestrel** (see *Permethrin*)
- 3-Ketocarbofuran**, effects, nitrogen fixing bacteria 10136
- (E)-4-Keto-2-hexenal**, mixtures, pheromones, *Erthesina fullo* 7069
- Ketones**, repellents, *Apis florea* 5438
- Keys**
Abacarus 9525
Acaenitinae 1294
Acari, Sweden 1836
Aculops, India 6269
Aderidae, North America 11816
Agaon 10718
Aleocharinae, Kalimantan 9450
Aleuroglyphus, Egypt 4048
Aleyrodidae, India 9154
Amblyseius
subgenera 10235
Taiwan 2495
Anastrepha ludens, larvae 5278
Anisopteromalus, Afrotropical Region 4465
Anomis, India 10237
Anthemus, Africa 3574
Apethymus, France 2972
Aphididae 10226, 11902
predators 7267
Aphodius
Afrotropical Region 10228
Turkey 1184
aquatic invertebrates 7268
Araneae 4025
UK 5477
Arctiidae 2132
Arge, America 5975
Argentiorhynchus 7552
Aschitus 3515
Asilinae 4271
Athalia
India 10236
Japan 1026
Atherigona, Afrotropical Region 6680
Belytinae 7518
Bembix, Arab countries 11459
Blacinae 10232
Blastobasidae, North America 5393
Bombyliidae, Arab countries 145
Braconidae 2137
Israel 1321, 1760
Italy 9405
Braconinae 268
North America 9451
Brevipalpus, Costa Rica 802
Bruchidae 4269
Byrrhus, France 5258
Calambus, USSR 4251
Callosobruchus analis 5089
Capys, South Africa 2943
Carabidae 8168
North America 10364
USSR 383
Catorhintha, America 349
Cerambycidae, Scandinavia 11264
Chaetorellia 6639
Cheyletidae 12017
Chionaspidina, North America 3248
Chionaspis, North America 3262
Chlorocyus 6570

Keys cont.

- Chyliza*, Japan 8196
Cicadoidea, Oceania 10239
Cixiidae, Taiwan 4266
Coccidohystrix 9151
Coccinellidae 7266
Bermuda 10452
Coccoidea
Pacific Islands 7273
Saudi Arabia 1831
Coccophagus pseudococci group 240
Coleoptera 1005
Japan 4078
stored products, Canada 7272
USSR 10198
Copris 6262
Crematogaster, USA 3481
Cryptocephalus, India 9188
Cryptostigma 2138
Cryptostigmata, Neotropical Region 10179
Curculio villosus group 9952
Curculionidae, Japan 1044
Dacinae, Oceania 13
Delphacidae, China 9515
Deporini, Japan 8
Derelomini, Oriental Region 3925
Derelomorphus 3925
Deroplax, Oriental Region 2968
Diaspididae 11295
Dilariidae, Spain 7507
Dinarmus 6592
Diodontus, North America 4255
Diplopoda, Canada 3227
Diptera
developmental stages 7264
Japan 3415
USSR 10197, 12022-12023
Dolichovespula, UK 2492
Drepanosiphinae, India 2967
Drosophila 11617
Drosophilidae 5267, 10238
Dystropicus, India 1841
Ectoedemia, Palaearctic Region 840
Elaphrothrips, America 1037
Elenchidae 9409
Encarsia
Italy 9404
Oriental Region 3498
Encyrtidae, New Zealand 2124
Entedon, North America 3557
Ephydriidae, Australia 4
Eriophyes, South Africa 9674
Eriosoma 5264
Eryciina, UK 5954
Euchirinae 7440
Euchromius 1
Eucoilidae, Taiwan 3523
Eucoptacra 10895
Eulachnus, Europe 7032
Eupelmidae 6255
Euphoria 1039
Eupithecia, Canada 10245
Eurytomidae, West Africa 3514
Euthycera, Spain 4404
Euurobracon 8204
Formicidae 10193
America 11420
Saudi Arabia 193
Frankliniella 6260
Europe 4264
Fraus, Australia 9119
Fulgoroidea 7310
Galerucinae, South East Asia 2134
Gelechiidae, Europe 3225, 3266, 6285
Geotrupinae, Papua New Guinea 9332
Gephyraulus 3975
Glyphina, Palaearctic Region 5000
Gryon, USSR 11465
Haplidia 5255
Heliothinae, USSR 3263
Hemerobiidae
Australia 228
Papua New Guinea 229
Heterococcus group 8206
Heteroptera
Illinois 9339
Italy 8289
Hippodamia 9176
Hippopsis lemniscata group 1035
Hydrophilidae, North America 7306

Keys cont.

- Hymenoptera 1010, 3215
 German Federal Republic 4632
 New Zealand 6464
 USSR 4728, 5724
Hypoaspis 10234, 11286
 German Democratic Republic 5268
Hypocaccus, Spain 7307
Hypsicera, Europe 3563
 Ichneumonidae 2727
Idaethina, Australia 11806
Indomecus 11871
 insects 4254
 Europe 9146
 tropics 1000
Janus, North America 2954
 Kalotermitidae, USA 3577
 Laphriinae 4416
Lepidiota noxia, Australia 805
 Lepidoptera
 British Isles 1003
 eggs 6893
 German Democratic Republic 4262
 Ivory Coast 10594
 USSR 1006
Leptothrips, America 3970
Lonchophorellus 8653
Loncophorus 1027
 Lycaenidae, California 2159
Mada 1036
 Mantodea 11246
 Megarrhamphini 2649
Megaselia 4257, 7263
Megatrioza, Hawaii 2698
Melanophila 1821
 Membracidae, Venezuela 10
Merobruchus, America 3249
Mesobraconoides 11560
Mesostenus 6560
Microcharops 3496
 Microgastrinae 263
Micromus, Nearctic Region 3528
Micropeplus, North America 9960
Mizonocara 3224
Myllocerus, India 2969
 Mymaridae, New Zealand 6463
 Myriapoda, Canada 3247
 Myrmecozelinae, Palaearctic Region 11253
Neoclytus, Panama 8858
Neocypholaelaps 3493
Neoepilohmannia 2975
Neohydronomus, South America 7559
 Nepticulidae, New Zealand 6462
 Noctuidae, USSR 10201
Odontotermes, China 6597
Oedancala, Florida 11591
Ommatissus 2135
 Onthophagini, Afrotropical Region 10227
Onthophagus, Turkey 8208
Onthophagus palatus group 5265
Opius, New South Wales 10509
 Orgilinae 2147
 Orthopteroidea 7255
 Oxyporinae, Mexico 10755
Pachynomada 3226
Palarus, Saudi Arabia 232
Paraamblyseius 1040
 parasitoids, USSR 2723
Parepisparis, Australasia 11803
Pauesia, Spain 7506
Pelidnota 7950
Pentamerus 10012
 Phyllocephalinae, Pakistan 2588
Phyllotreta, larvae 11293
 Phytoseiidae 11525
 Pipunculidae 8203
Pistiicola 9497
Pityogenes, America 834
Plagiolepis, USSR 3490
Planococcus 16
 Platygasteridae 5491
Pleolophus, Europe 8210
 Pompilidae 7261
 German Democratic Republic 3434
Praxibulus 3468
 predatory mites, Egypt 572
Priscapalpus 6778
Prokelisia 11285
 Prosobranchia, UK 11257

Keys cont.

- Psammodiini 9169
 Pseudococcidae 8209
 Pseudoscorpiones
 Morocco 11281
 UK 4226
 Psychopsidae 3
 Psylloidea, Panama 10240
 Pterostichini, North America 8215
 Pyralidae, USSR 3779
Rhizognostis, Europe 3233
Rhizophagus
 India 1820
 Nearctic Region 9139
Rhopalosiphum 406
Rhopus 3509
 Salticidae, Australia 11289
Sathon 2456
 Scarabaeidae, Turkey 2145
 Schoutedeniini 4253
 Scolytidae 9962
 Scydmaenidae, Thailand 9153
 Sesiidae, Europe 5251
Silviella, Chile 2146
Sirex 6264
Solenopsis, Florida 6520
 Sparassidae, Israel 10467
Spathosternum 6250
 Sphecidae, Chile 1340
 Sphecinae, Arab countries 231
Sphegigaster, Nearctic Region 212
Stenomelissa 1032
 Sticholotidinae 8895
 Stigmoderini 8199
 stored products, insect pests 4232
 Strepsiptera 4473
Synergus crassicornis group 2140
 Syrphidae 2165
 Italy 2489
 Systellopini, Australia 8200
Taphrocoetes 2947
Teleopsis 2128
Tenthredo, Palaearctic Region 4261
Tenuipalpus, Costa Rica 4594
 Tephritidae 7262
 Israel 10241
Tephritis, North America 4585
Terellia 6643
Tetragnatha, Thailand 10612
Therioaphis 6261
 Thomisidae
 Malawi 2358
 Saudi Arabia 11457
 Thysanoptera 6807
Toxoptera 6626
Tricholaba 4260
Trichomasthus 6591
 Trypetimorphini 2135
Trypodendron, Palaearctic Region 5269
Tuckerella, Costa Rica 7739
Turanogryllus, India 5266
 Typhonini, Korea Republic 1030
Tyrophagus 11024
Uraba lugens, parasitoids, South Australia 8915
 Uroplatini 4678
 Vespidae, Indiana 10451
Volucella, Italy 9418
 Winterschmidtidae 5455
Winthemia, Australasia 3525
Xenomimetes, Asia 8847
Xyleborus, North America 9965
Zeugophora, Australia 7946
Khaya nysica, *Heteronygmia dissimilis*, Tanzania 10944
Khaya senegalensis, wood, *Psammotermes hybostoma*, damage 3067
Kheper lamarki
 Africa 5459
 ectoparasites 5459
 Kidney beans (see *Phaseolus vulgaris*)
Kiggelaria africana, *Acraea horta*, South Africa 3985
Kikuyu grass (see *Pennisetum clandestinum*)
Kinoprene ((2E,4E)-2-propynyl 3,7,11-trimethyl-2,4-dodecadienoate)
 effects, *Dysdercus cingulatus* 2170
Kiritshenkella, taxonomy 8209

Kitazin, toxicity, *Scirpophaga incertulas* 3714

Kiwifruits (*Actinidia deliciosa*)
 arthropod pests, Italy 11635
 Diaspididae, New Zealand 8553
 insect pests

Chile 4769
 Japan 11658
 insecticides, residues 4769
Lobesia botrana, Italy 7742
 pest control 4769

KK-42 (see 1-Benzyl-5-[(E)-2,6-dimethyl-1,5-heptadienyl]imidazole)

Klebsiella oxytoca, *Rhagoletis*, interactions 9284

Klebsiella pneumoniae, attractants, *Delia antiqua* 716

Kleidocerys

biology 5256
 Europe 5256
 taxonomy 5256

Kochia cana, *Chaitaphis safavii*, Iran 10663

Koelreuteria paniculata, *Jadera haematoloma*, Oklahoma 5950

Kohlrabi (*Brassica oleracea* var. *gongyloides*)

Chromatomyia horticola, Hungary 9864

fields, parasitoids, Hungary 9864
 insecticides, residues 2800

Kojic acid

mixtures, toxicity, Noctuidae 11158
 synergism 11158

Kopmite (see Chlorobenzilate)

Korea Democratic People's Republic

Braconidae 5476
Carabus 2365

Korea Republic

Aceria zeltkoviana 11828

Aphodiidae 9169

Aphodius 18, 8207

Apis mellifera, ectoparasites 1253

Bactrocera cucurbitae, interceptions 8296

biological control 8049

Blastobasidae 5047

Coleoptera 11380

Collembola 8881

crops, insect pests 8297

Cylas formicarius 8295

Delia platura 5801

Delphacidae, predators 3691

entomology, conferences 10214

Epilachna vigintioctomaculata, parasitoids 3914

forests, soil arthropods 8882

fruit trees, Lepidoptera 3747

fruits, pesticide residues 10045

Helicoverpa assulta 4898

Hishimonus sellatus 10739

insect pests 9029

insects, distribution 1188

Laodelphax striatella 1474, 5612, 11538, 11557

parasitoids 4471

Nilaparvata lugens 451, 1473, 4670, 10109

pathogens 7618

oil plants, arthropod pests 1720

Onthophagus 6263

Orthotomicus angulatus, pathogens 11797

Panonychus ulmi 8589

Phytoseiidae 8352

Rhizoglyphus echinopus 1705

rice

commodities, pesticide residues 10036

insecticides, effects 5633

Saperda populnea 10909

Scolytidae 2347, 5046

soil arthropods 7427

Tetranychus urticae 8618

Thecodiplosis japonensis 843

parasitoids 10434

Tortricidae 10359

Typhonini 1030

Korscheltellus gracilis (see *Hepialus gracilis*)

- Kotochalia junodi*, distribution, Saudi Arabia 2963
- Kranophorus extensus*
hosts, *Cerapteryx graminis* 1520
Netherlands 1520
- Kyrimisca*, ecology 4271
- Kumquats**
Ceratitis capitata 494, 10722
Hawaii 6834
Tephritidae 6848
- Kurisia aianthi sawagurumii*
Japan 1840
Pterocarya rhoifolia, galls 1840
taxonomy, new subspecies 1840
- Kuwait**, invertebrates, surveys 11955
- Kyboasca bipunctata*
cotton, USSR 2903
sampling 2903
- Kytorhinus sharpianus*
biology 1918
Sophora flavescens, Japan 1918
- Labeo rohita*, insecticides, effects 5199, 6196, 8095, 11192
- Labiatae**, Cynipidae, Spain 4988
- Labidura riparia*
cattle dung, Egypt 5455
ectoparasites 5455
Egypt 281
maize, fields, Georgia 7608
physiology, cardiovascular system 4316
prey
Anticarsia gemmatilis 4862
Spodoptera frugiperda 7608
Psammotermes hybostoma, interactions 281
soyabeans, fields, Florida 4862
- Labiduridae**, groundnuts, fields, Alabama 10810
- Labidus praedator*
Brazil 1224
Callithrix humeralifer, interactions 1224
- Lablab purpureus*
Aphis craccivora 1602, 2828
India 6889
Bemisia tabaci, India 6533, 10786
Dasychira mendosa, India 2819
fields
Cheilomenes sexmaculata, India 6889
Hymenoptera, India 9740
parasitoids, Georgia 4856
Helicoverpa zea, Georgia 4856
insecticides, persistence 8087
Maruca testulalis 9781
pollen, food, *Orius sauteri* 3532
Spilosoma obliqua 595, 2782
yellow mosaic, vectors, *Bemisia tabaci* 10786
- Labops hesperius*
grasses, Utah 3729
predators 3729
- Lacanium marsupiale* (see *Marsiopococcus marsupiale*)
- Lacanobia oleracea*
monitoring, traps 10749
Poland 4408
vegetables, German Democratic Republic 10749
- Lacanobia suasa*
pheromones 7347
physiology, pheromones 2254
- Laccaria**
Oxyporus mexicanus, Mexico 10755
Pallodes 600
- Lachenalia*, commodities, *Chorizococcus lachenaliae*, South Africa 7085
- Lachnidae**, physiology, enzymes 1060
- Lachnosterna disparilis*, tea, Sri Lanka 10883
- Lachnus salicis*
Salix, India 8878
taxonomy, new species 8878
- Lachnus tropicalis*
parasitoids 10981
Quercus dealbata, India 10981
- Lactistema*, *Metacharis ptolomaeus*, Brazil 4004
- Lactarius*, *Pallodes* 600
- Lactuca sativa* (see Lettuces)
- Lactuca serriola*, *Agapanthia dahli*, Hungary 4910
- Laelapidae**
groundnuts, fields, Egypt 662
prey, arthropod pests 662
- Laelaspisella*, taxonomy 10234
- Laemophloeus minutus* (see *Cryptolestes pusillus*)
- Laetilia coccidivora*
biology, behaviour 10340
Pinus taeda, nurseries, Georgia 8839
prey, *Toumeyella pini* 8839
- Laetisaria arvalis*, Collembola, interactions 9020
- Lagenaria siceraria* (see Bottle gourds)
- Lagerstroemia*, *Antheraea mylitta*, India 10986
- Lagerstroemia speciosa*, Lygaeidae, India 7741
- Lagerstroemia subcostata*, *Actias selene*, Taiwan 4002
- Lagoptera juno**
fruit trees, Korea Republic 3747
monitoring, traps 3747
- Lagria villosa*
control, insecticides 1637-1638
Phaseolus vulgaris, Brazil 1637-1638
- Lakes**, insecticides, residues 5217
- Lambdina fiscellaria fiscellaria*
Abies balsamea, Newfoundland 3005, 7915, 8852
biological control agents, evaluation 9975
biology 9975
Canada, reviews 9975
control 9975
growth regulators 3005
insecticides 7915
microbial pesticides 8852
natural enemies 9975
pathogens 4111
Tsuga 9975
- Lambdina fiscellaria lugubrosa*
biological control agents, evaluation 9975
biology 9975
Canada, reviews 9975
control 9975
monitoring, traps 7038
natural enemies 9975
Tsuga 9975
Tsuga heterophylla, British Columbia 7038
- Lamelidens corrianus*, insecticides, effects 5209
- Lamelidens marginalis*, insecticides, effects 5209
- Lamium album*, *Cryptomyzus alboapicalis*, Netherlands 8562
- Lamium maculatum*, *Cryptomyzus alboapicalis*, Netherlands 8562
- Lamium purpureum*, insect pests, natural enemies, effects 4873
- Lampides boeticus**
Cajanus cajan, India 5816
Cicer arietinum, India 2853
control 2831
Vigna radiata, India 2831, 5811
- Lampra festiva*
control 1871
Thuja, France 1871
- Lamprosema diemenalis*
control, insecticides 2838
soyabeans, India 2838
- Lamprosema indicata* (see *Omiodes indicata*)
- Lampyridae**
conifers, Ontario 8862
monitoring, traps 8862
- Land use**, effects, Araneae 4527
- Lannate** (see Methomyl)
- Lansea coromandelica*, insect pests, India 10979
- Lansium domesticum*, extracts, deterrents, *Diabrotica undecimpunctata* 1414
- Lantana*, extracts, control, stored products pests 5083
- Lantana camara**
biological control 4593, 4603
reviews 6633
extracts, effects, *Lipaphis erysimi* 614
- Lantana camara cont.**
Leptobyrssa decora, India 2565
New South Wales 6633
Orthezia insignis, India 3979
- Laodelphax striatella**
biology
behaviour 3691
circadian rhythm 9192
development 7419
diapause 5644
phenology 11557
control, insecticides 1474, 11538
East China Sea 2394
garlic, USSR 720
growth regulators, effects 10157
insecticides
pathogenicity 9591
resistance 7179
Japan 3564-3565, 5644
Korea Republic 4471
maize, Korea Republic 5612, 11538, 11557
parasitoids 1491, 3564-3565, 4471
pathogens 11904
physiology, enzymes 8226
plant pathogens, transmission 5612, 11557
predators 3691
rice
Japan 1491
Korea Republic 1474, 3691
resistance 6725
yield losses 2654
rice black-streaked dwarf fivirus, transmission 1474
sampling 2394
- Laos**, *Galerucinae* 2134
- Laothoe populi**
biology 8891
environmental factors 7039
food plants 7039
forest trees 8891
pollutants 1835
Populus tremula, Finland 1835
- Laphria**
distribution, USSR 4416
taxonomy 4416
- Laphriinae**
distribution, USSR 4416
taxonomy 4416
- Larch** (see *Larix*)
- Lardoglyphus**
biology 4049
fishes, commodities 4049
- Laricobius**
distribution, North America 3419
prey, Aphididae 3419
- Larinus**
Carduae 6645
Japan 4277
morphology 4277, 6645
- Lariophagus distinguendus**
biology
behaviour 4487
reproduction 2503, 6023
hosts
Sitophilus granarius 2503, 4487
Sitophilus oryzae 6023
- Larix**
Adelgidae 9987
Coleophora dahurica, China 7510
insect pests, UK 5065
Rhyncolus bhutanensis, Bhutan 8847
Strobilomyia melania, France 6008
- Larix decidua**
Graellsia isabellae 1827
Lymantria dispar 8866
Strobilomyia, Finland 5053
- Larix gmelinii**, *Strobilomyia*, Finland 5053
- Larix griffithiana**, *Ips schmutzenhoferi*, Bhutan 3039
- Larix laricina**
Dendroctonus simplex, North America 10964
Strobilomyia, Finland 5053
- Larix leptolepis**
Anoplonyx orientis, Japan 2970
Ips cembrae, damage 7931
Strobilomyia, Finland 5053

- Larix occidentalis**
Choristoneura occidentalis, Montana 1791
Dichelonyx vicina, Montana 2949
insect pests, USA 6011
- Larix sibirica**
Dendrolimus sibiricus, damage 4985
Strobilomyia, Finland 5053
- Larra bicolor**
control, *Scapteriscus* 1519
Florida 1519
- Larrea tridentata**
Acrididae, California 11527
arthropods, New Mexico 10523
Asphondylia, galls 8437-8438
Ligurotettix coquillei, California 5008, 6677
- Larus argentatus**
pesticides, residues 968, 10135
prey, *Agrotis ipsilon* 4168
- Larvaevoridae**
habitats, Poland 5069
hosts, *Yponomeuta padellus* 5069
- Larvin** (see Thiodicarb)
- Lasers**, effects, *Ephestia cautella* 866
- Lasiocampa trifolii**, Morocco 1034
- Lasiocampidae**
distribution, Spain 6218
Eucalyptus, Australia 11005
French Guiana 11075
pathogens 11075
- Lasioderma serricorne**
biochemistry, oviposition deterrents 9106
biology 1886, 1897
development 1899
phenology 7985
cashews, commodities 867
Centella asiatica, commodities 1899
cereal grains 7985
control 1886
controlled atmospheres 5079
ectoparasites 1283
fruits 11638
furniture, Italy 8960
insecticides, toxicity 6024, 11013
monitoring, traps 174, 853
museum specimens 1886, 5079
parasitoids 1899, 7985
pathogens 849
plant extracts, toxicity 1415
predators 860-861, 7986
Saudi Arabia 174
Symbiotaphrina kochii, symbiosis 4382
tobacco
commodities 6024
Taiwan 853
yeasts, symbiosis 6021
- Lasioglossum**
India 2705
strawberries, pollination 2705
- Lasiomma anthracinum** (see *Strobilomyia anthracina*)
- Lasiomma laricicola** (see *Strobilomyia laricicola*)
- Lasiomma melanium** (see *Strobilomyia melania*)
- Lasioptera cerasiphera**
biology 11653
Prunus cerasus, German Democratic Republic 11653
taxonomy, new species 11653
- Lasioptera rubi**, small fruits, Switzerland 5701
- Lasioseius scapulatus**, morphology 9191
- Lasius**
biology, behaviour 5437
Europe 5437
- Lasius emarginatus**
France 11042
Reticulitermes, interactions 11042
- Lasius flavus**
biochemistry, carbohydrates 9387
biology, reproduction 9624
ecology, bioenergetics 9625
France 9387
grasslands, UK 9624-9625
physiology, respiration 202
pollen, germination 9924
UK 202, 9924
- Lasius fuliginosus**, biology 3485
- Lasius morishitai**
Japan 1863
Toxoptera odinae, interactions 1863
- Lasius neoniger**
biology 10192
behaviour 192
Massachusetts 192
- Lasius niger**
Belgium 2432
biochemistry, carbohydrates 9387
biology 11426
ecology, population dynamics 11856
forests, Finland 11856
insecticides, residues 2432
physiology, spermatogenesis 11326
Plebejus argus, interactions 140, 9328
Switzerland 9328, 9387, 11426
- Laspeyresia pomonella** (see *Cydia pomonella*)
- Laspeyresia strobilella** (see *Cydia strobilella*)
- Laspeyresia youngana** (see *Cydia strobilella*)
- Laspeyresiini**
taxonomy 3424
Vietnam 3424
- Lasso**, effects, *Diaeretiella rapae* 1618
- Laterospora phenacocca**, hosts, *Maconellicoccus hirsutus* 8022
- Latheticus oryzae**
ecology, population dynamics 3052
maize, commodities, Georgia 3052
- Lathrapanteles papaipemae**, taxonomy 2456
- Lathridius anthracinus**
biology, development 4050
chocolate 4050
fungi, interactions 4050
- Lathrobium fulvipenne**, pesticides, effects 2623
- Lathrolestes marginatus**
apples, orchards, Poland 4759
hosts, *Hoplocampa testudinea* 4759
- Lathyrus**, *Tricholaba* 4260
- Lathyrus sativus**, commodities, *Callosobruchus maculatus* 11877
- Lathyrus sylvestris**, *Bruchus affinis*, France 10646
- Latin America**
biological control, reviews 5160
Spodoptera frugiperda 3603
- Latistria**, taxonomy 7310
- Latistria eupompe**, taxonomy, from *Delphax* 7310
- Latoia viridissima** (see *Parasa viridissima*)
- Latrodectus hesperus**, physiology, chemical composition 1125
- Latrodectus mactans**, morphology, colour 9412
- Laudanosine**, effects, Papilionidae 3829
- Lauraceae**, *Papilio glaucus* × *P. pilumnus* 4003
- Lavandula latifolia**
Hemineura bigoti, Spain 8830
insects, pollination 9507, 11518
- Lavatera**, *Tyrophagus longior*, UK 8812
- Law**, pesticides, UK, books 7270
- Lawana conspersa**
cocoa, Malaysia 10876
pathogens 10876
- Lawns and turf**
arthropod pests, Hungary 8534
Fraus simulans, Tasmania 9119
Protagamasellus minutus, Egypt 1521
Scapteriscus, Florida 1519
Scapteriscus vicinus, Florida 6761
Scarabacidae, Colorado 9626
soil arthropods, Pennsylvania 8538
- Lawsonia**, insecticides, residues 1407
- Lawsonia alba** (see *L. inermis*)
- Lawsonia inermis**, *Saracallis kahawaluokalani*, India 10894
- Lead**
accumulation, slugs 9483
effects
Pimpla turionellae 4523
soil invertebrates 10018
pollutants, invertebrates 9100
residues
arthropods 5060
- Lead cont.**
residues cont.
Coleoptera 4040
Helix aspersa 2545
- Leaf miners**
control
cultural control 8689
integrated control 10847
melons 8689
tomatoes, Israel 10847
- Leather**
Dermestes, Iraq 848
insect pests
biology 1896
control 1896
- Leather jackets** (see Tipulidae)
- Lebanon**, *Ceratitis capitata* 4428
- Lebia**, taxonomy 10476
- Lebia concinna**
biology, phenology 9827
insecticides, effects 5820
potatoes, fields, Brazil 9827
prey, potatoes, insect pests 9827
soyabeans, fields, Brazil 5820
- Lebia viridis**
Florida 10476
hosts, *Altica foliacea* 10476
- Lecaniidae** (see Coccidae)
- Lecanodiaspididae**
distribution, Pacific Islands 7273
taxonomy 7273
- Leccinum**, *Oxyporus*, Mexico 10755
- Leccinum scabrum**, *Pegomya*, Finland 9752
- Leccinum versipelle**, *Pegomya*, Finland 9752
- Lecithin**, mixtures, toxicity, *Helicoverpa armigera* 5131
- Leconteilus**, taxonomy, new genus 5261
- Leconteilus pinicola**
Pinus sabiniana, California 5261
taxonomy, new species 5261
- Ledomyia**
cocoa, plantations, Costa Rica 3946
monitoring, traps 3946
plant oils, attractants 3946
- Leek yellow stripe potyvirus**, vectors, Aphididae 9909
- Leeks** (*Allium porrum*)
Acrolepiopsis assectella
Netherlands 7832
Poland 1704
Agrotis segetum, Denmark 3832
fields, Hymenoptera, Poland 1704
Napomyza gymnostoma, Hungary 11751
- Leersia hexandra**
Cecidomyiidae, India 3731
Nephotettix 7640
Nilaparvata lugens, resistance 448
Pyralidae, food preferences 11580
- Legumes**
Acyrtosiphon pisum, Georgia 2818
Agrotis crassa, USSR 11603
Andaspis 1831
Aphididae, India 9740
Apionidae, America 157
Argyrogramma signata 6458
arthropod pests, Africa 1011
Bruchidae, conferences 11270
Callosobruchus maculatus 6420
commodities
insect pests, detection 869
Zabrotes subfasciatus 7999
Cynthia cardui 323
Diuraphis noxia 3658
fields
Hymenoptera
India 9740
Japan 8692
parasitoids, Sahel 9521
habitats
invertebrates, Peru 8922
predatory arthropods, Mississippi 9502
Helicoverpa armigera, India 5826
insect pests
Africa 6456
Italy 10220
Ivory Coast 2486
parasitoids 2486

Legumes cont.

- insect pests cont.
- Sahel 9521
- insects
- ecology 6242
- sampling 6242
- Lepidoptera, Australia 7861
- Merobruchus*, America 3249
- Noctuidae, Mississippi 9502
- Pentatomidae, Japan 2815
- pest control 1514
- reports 2117
- USSR 625-626
- Riptortus clavatus*, Japan 6879, 8692
- Tricholaba* 4260
- Leguminivora glycinivorella**
- China 4164
- forecasting 4164
- Lehmannia valentiana**
- biology, behaviour 303
- physiology, reproduction 5543
- Leidyana oryzaephili**, hosts, *Oryzaephilus mercator* 11046
- Leidyndema portentosae**, hosts, insects 8978
- Leiobunum rupestre**, buildings, Denmark 1339
- Leiophron uniformis**
- biology, behaviour 6571
- hosts, *Lygus* 6571
- Leipothrix lysimachiae**
- Lysimachia clethroides*, China 5948
- taxonomy, new species 5948
- Leis axyridis** (see *Harmonia axyridis*)
- Lema melanopus** (see *Oulema melanopus*)
- Lemna gibba**, *Lemnaphila scotlandae*, Florida 4581
- Lemna minor**
- Lemnaphila scotlandae*, Florida 4581
- Neohydronomus affinis* 5556
- Lemna valdiviana**, *Lemnaphila scotlandae*, Florida 4581
- Lemnaphila scotlandae**
- biology 4581
- Lemna*, Florida 4581
- parasitoids 4581
- Lemna kaszabi cinerea**
- habitats, Papua New Guinea 10868
- taxonomy, new subspecies 10868
- Lemons** (*Citrus limon*)
- Aleyrodidae 11667
- Italy 3816
- Brevipalpus phoenicis* 569
- Ceratitidis capitata* 10722
- Chrysomphalus aonidum*, Cuba 9724
- Coccidae, Cuba 9714
- Hemiptera, Cuba 9712
- insecticides, residues 570
- orchards
- Aphytis holoxanthus*, Cuba 9724
- Coccophagus pulvinariae*, Cuba 9714
- Hymenoptera, Cuba 9712
- parasitoids, Italy 3816
- Panonychus citri**
- Brazil 4792
- California 9710
- Polyphagotarsonemus latus** 10725
- Prays citri**
- Israel 9723
- Spain 4791
- Priscapalpus piarai*, India 6778
- Sphecidae, Chile 1340
- Toxoptera aurantii** 9719
- resistance 3810
- Tuckerella knorri*, Costa Rica 576, 7739
- Tuckerella pavoniformis*, Costa Rica 7739
- Unaspis citri*, Cuba 9713
- Lens culinaris** (see *Lentils*)
- Lens esculenta** (see *Lentils*)
- Lentils** (*Lens esculenta*)
- Acyrtosiphon pisum*, USA 5805
- Apion arrogans*, Syria 5804
- commodities
- Callosobruchus chinensis*, India 11888
- Callosobruchus maculatus* 11877
- Helicoverpa armigera* 7120
- Contarinia lentis*, damage 8694
- fields, predatory insects, USA 5805

Lentils cont.

- insecticides, effects 1634
- intercropping, *Cicer arietinum*, pest control 5833
- Lygus hesperus*, USA 4843, 7792
- Ophiomyia centrosematis* 2833
- products, *Tribolium castaneum* 7989
- Sitona lineatus* 2678
- Thyanta pallidovirens* 9792
- Leopoldius brevirostris**
- distribution, UK 2364
- Leopoldius signatus*, differentiation 2364
- Leopoldius signatus**, *Leopoldius brevirostris*, differentiation 2364
- Leperisinus varius** (see *Hylesinus varius*)
- Lepesoma bakeri**
- cranberries, Oregon 10678
- morphology 10678
- Lepidiota alticalceus**
- Eucalyptus*, Western Australia 805
- taxonomy, new species 805
- Lepidiota crinita**
- ecology, distribution 3646
- sampling 3646
- sugarcane, Queensland 3646
- Lepidiota negatoria**
- ecology, distribution 3646
- sampling 3646
- sugarcane, Queensland 3646
- Lepidiota noxia**
- ecology, distribution 3646
- sampling 3646
- sugarcane, Queensland 3646
- taxonomy 805
- Lepidiota picticollis**
- ecology, distribution 3646
- sampling 3646
- sugarcane, Queensland 3646
- Lepidiota stigma**
- control, insecticides 6696
- sugarcane, China 6696
- Lepidium hyssopifolium**, *Apina callisto*, Australian Capital Territory 8421
- Lepidium virginicum**, *Rhopalus tigrinus*, Pennsylvania 335
- Lepidocide** (see *Bacillus thuringiensis* subsp. *kurstaki*)
- Lepidocyrtinus incertus**, predators 1344, 1521
- Lepidocyrtus lignorum**, urban areas 1190
- Lepidoglyphus destructor**
- biology, environmental factors 8460
- cereal grains 11036
- UK 8942
- control, insecticides 11876
- man, allergens 8942
- oats, commodities, Manitoba 11876
- pheromones 8945
- stored products, Poland 7092
- wheat
- commodities 8945
- damage 8460
- Lepidoptera**
- Acacia mearnsii*, South Africa 5040
- apples
- British Columbia 5732
- German Federal Republic 3799
- Switzerland 8616
- apricots, India 11654
- aquatic plants, German Democratic Republic 4262
- attractants 921, 6136
- Baccharis halimifolia*, USA 1391
- bibliographies 10168
- biochemistry, proteinases 8224
- biology 525, 2073, 4254, 7259
- behaviour 5366, 9313, 9507, 10215, 11518
- development 7450
- environmental factors 4662
- migration 2322, 7415
- polymorphism, models 10325
- Brazil 6525
- British Isles, books 1003
- cabbages
- damage 10771
- USSR 608
- Campylomma verbasci*, interactions 5732
- Cape Verde 262

Lepidoptera cont.

- cassava, Trinidad and Tobago 1701
- cell cultures 11411
- cell lines 5111
- insecticides, toxicity 8014
- organic compounds, effects 6490
- cereal grains, detection 4080
- Chile 4400, 5231
- conifers, Romania 6002
- conservation 6395-6398
- control 525, 608, 2661, 3048, 7259, 7586
- biological control 2587, 4805
- insecticides 810, 3766-3767, 3944, 4904, 6792-6794, 6865, 7068, 10671, 10673, 10818
- microbial pesticides 902, 5161, 8029
- pheromones 7168
- physical control 10769
- trapping 10694
- cotton
- China 3126
- India 5888
- resistance 7858
- crops, Brazil 7259
- Cuba 8292
- Czechoslovakia 6136
- distribution
- California 1984
- Irish Republic 9338
- Netherlands 2359
- New Zealand 8065
- Norway 4392
- Ohio 146
- Sweden 4409-4410
- Switzerland 159
- UK 11397
- Vietnam 3422-3423
- ecology 785, 9168
- diversity 2340
- ectoparasites 4533, 8374
- Emex australis*, South Africa 3608
- Eucalyptus*, Brazil 10914
- Europe, books 8166
- evolution 6306
- field crops, USSR 2587
- food plants 6424
- forest trees
- India 10979
- Solomon Islands 838
- USSR 810
- forests
- Canada 4047
- China 11002
- Finland 4026
- Poland 5067
- fruits 10694
- USSR 525, 2723
- genitalia, photography 3454
- grapes, Austria 3765-3767, 6792-6794
- grasslands, German Federal Republic 2676
- groundnuts, Texas 3889
- habitats, New Zealand 4378
- Hibiscus*, India 8768
- Hungary 8311
- India 10413
- insecticides
- effects 5067
- pathogenicity 7155
- resistance 7861
- toxicity 846, 940, 7123, 7183, 10109
- introduction 6395-6396
- Irish Republic 7415
- Italy 3095
- Lavandula latifolia*, pollination 9507, 11518
- Mentha asiatica*, USSR 2927
- microscopy 1197
- monitoring 3048
- traps 921, 2399, 4859, 6136, 8065, 8311, 9338, 11397
- Morocco 1034
- morphology 1825, 4254, 10187
- genitalia 3254
- wings 5280
- natural enemies 6792, 10914
- Netherlands 2322
- New Zealand 2124
- North America 9168, 10360

Lepidoptera cont.

- North Carolina 1312
- ornamental woody plants, Czechoslovakia 837
- parasitoids 255, 262, 1312, 2124, 2154, 2450, 2723, 3020, 3239, 3517, 3534, 3563, 3571, 3872, 6002, 6685, 11941
- Parthenium hysterophorus*, India 3239
- pathogens 3095, 5108, 5118, 7130, 11099, 11923
- pheromones 1007, 6117, 6306, 6424, 9208
 - genetic engineering 3137
 - reviews 1079
- physiology 9168
 - digestive system 5288
 - lipids 2278
 - nervous system 2247
 - nutrition 6319
 - parasitism 2450
 - pheromones 3289, 3295
- Picea abies*, Poland 5986
- Pinus banksiana*, Ontario 5987
- Piper arieianum*, Costa Rica 8826
- pistachios, USSR 4726
- plant extracts, effects 3151
- Platanthera huronensis*, pollination 7889
- Populus*, Poland 7953
- predators 1342, 3258, 3889, 4451, 6525, 8366, 10413, 10460, 10466, 11002
- preservation 3254
- Quercus*, forests, Poland 7050
- Quercus ilex*, Spain 819
- Quercus nigra*, Florida 10997
- rape, USSR 6865
- rearing techniques 4662
- rice
 - China 4662
 - Malaysia 2661
- rodenticides, toxicity 8124
- Rosaceae 785
 - UK 9917
- seeds, commodities 11056
- small fruits, Belgium 10671
- Sorbus aucuparia*, Norway 7068
- sorghum
 - resistance 3719
 - West Africa 1509
- soyabeans, Argentina 4859
- Spain 9507, 11518
 - conferences 2073
- strawberries, Belgium 10673
- sugarbeet, Italy 10818
- sugarcane
 - India 6685, 6689
 - Pakistan 7586
- Sulawesi 2340
- taxonomy 1000, 2073, 3422, 4254, 4259, 4262, 8292, 9168, 10187
- tobacco
 - commodities, Zimbabwe 3944
 - Zimbabwe 3944
- tomatoes
 - California 4904
 - resistance 8763
- trees, China 5989
- UK 6398, 7415
- USSR 902, 921, 2399, 6117
 - books 10187
- Utah 3492
- vegetables
 - China 4805
 - Connecticut 10769
- Vicia sativa*, UK 1530
- Vietnam 4533
- yams, commodities, Nigeria 6022

Lepidosaphes

- Romania 7311
- taxonomy 7311
- Lepidosaphes camelliae**
 - biology, development 4968
- Lepidosaphes ulmi*, differentiation 4274
- ornamental plants, Georgia 4968
- taxonomy 4274
- Lepidosaphes cupressi** (see *Cornuaspis cupressi*)
- Lepidosaphes gloverii**
 - Citrus*, Cuba 9712

Lepidosaphes gloverii cont.

- parasitoids 9446, 9712
- Lepidosaphes piperis**
 - biology 3637
 - control 3637, 9508
- Piper nigrum*, India 3637, 9508
- Lepidosaphes ulmi**
 - biology 524, 2696
 - control 524
 - insecticides 2696
 - Fraxinus*, USSR 792
 - fruits, USSR 524
 - Lepidosaphes camelliae*, differentiation 4274
 - trees, USSR 2696
- Lepidospartum squamatum**, *Neaspilota*, California 3635
- Lepinotus patruelis**
 - cereal grains, UK 8950
 - morphology, reproductive organs 8950
- Lepinotus reticulatus**
 - biology, phenology 1902
 - cereal grains 11036
 - commodities, Manitoba 1902
 - outbreaks 1902
 - predators 1902
- Lepisma saccharina**
 - Egypt 281
- Psammotermes hybostoma*, interactions 281
- Lepomis macrochirus**
 - insecticides
 - effects 8083
 - toxicity 10131
- Leptanusia brevicornis**, taxonomy, to *Anagyrietta* 2459
- Leptinotarsa decemlineata**
 - antifeedants 7823
 - aubergines
 - Italy 731
 - USSR 8764
 - biochemistry, proteins 10281
 - biology 8736, 9829-9830
 - behaviour 688
 - development 8740
 - diapause 9287
 - environmental factors 690, 5364
 - fecundity 7833
 - phenology 6926, 8737
 - reproduction 2386
 - control 701, 5850, 7819, 8764
 - biological control 731, 2106, 4880, 4886
 - cultural control 8745
 - insecticides 696, 2873-2874, 4210, 4881, 4883, 4903, 5167
 - integrated control 3901
 - microbial pesticides 903, 4885, 6928, 8738, 8997
 - ecology 5849, 6927
 - population dynamics 3906, 7819
 - survival 8264
 - effects 9107
 - food plants 7819
 - forecasting 722, 3146, 5849
 - German Democratic Republic 28
 - insecticides
 - effects 3119
 - metabolism 3160
 - pathogenicity 896, 3401, 8755
 - resistance 5191, 8745, 9057, 10117, 10827
 - toxicity 3174, 3902, 7839
 - Lycopersicon*, resistance 11753
 - models 28
 - natural enemies 7819
 - parasitoids 1315, 5450, 6925, 8736
 - pastures, New Jersey 8997
 - pathogens 4884, 10055, 11905
 - physiology
 - antigens 2381
 - development 28
 - diapause 1118
 - reviews 11340
 - endocrine system 99
 - respiration 2265
 - senses 3314
 - plant extracts
 - antifeedants 8742
 - repellents 6922
 - toxicity 724, 8747, 9848

Leptinotarsa decemlineata cont.

- Poland 4517, 7214
- potatoes 690, 3902, 7823, 8742, 8745, 8747, 9107, 10833
 - Canada 4886
 - Czechoslovakia 6928
 - German Democratic Republic 2386, 3906
 - Hungary 4881, 8738
 - Iran 9830
 - Manitoba 8737
 - Maryland 3901, 4880
 - Massachusetts 4884, 6925-6927
 - Michigan 10828
 - New York 2873, 8736
 - Pennsylvania 9835
 - Poland 2874, 5167, 6923
 - Quebec 6929
 - resistance 688, 1690, 7551, 10822
 - USSR 696, 701, 4210, 5849-5850
 - Virginia 4885, 4887, 8746, 10827
- predators 696, 4517, 6923, 10828
- reproduction, simulation models 2386
- sampling 4420, 8746
- Solanaceae
 - New Jersey 4883, 7833
 - USSR 722
- Solanum* 8755
 - Colorado 7824, 9829
 - Maryland 8740
 - resistance 1693
- Solanum chacoense*, resistance 5843
- symbionts 3401
- tomatoes
 - resistance 724, 9848
 - USA 4903
 - USSR 7834
 - USA 5191
 - USSR 903, 3146
 - vegetables, New Jersey 7839
 - Washington 9287
- Leptinotarsa texana**, natural enemies 3901
- Leptispa pygmaea**
 - biology 10615
 - rice, India 10615
- Leptobyrsa decora**
 - biology 2565
 - food plants, India 2565
- Leptocoris augur**
 - biochemistry, proteins 7896
 - biology, behaviour 10956
- Cardiospermum halicacabum*, India 7896
- Schleichera oleosa*, India 10956
- Leptocoris trivittatus**
 - biology 7053
 - control, insecticides 7053
 - habitats, USA 7053
 - man, allergies 7053
 - morphology 7053
- Leptocoris**
 - food plants, Malaysia 2661
 - rice, Bhutan 7642
- Leptocoris acuta**
 - insecticides, toxicity 11178
 - plant extracts, attractants 439
 - rice
 - India 1478
 - Sri Lanka 439
- Leptocoris oratorius**
 - biology 2642
 - phenology 6734, 7651
 - control, insecticides 11574
- Echinochloa colonum* 2642
- Gramineae, India 7651
- rice
 - India 6734, 11574
 - Malaysia 3663
- Leptocoris varicornis**
 - antifeedants, effects 2647
 - rice, India 2647
- Leptogenys**
 - biology 10192
 - behaviour 3483
 - forests, Malaysia 3483
 - Isoptera, interactions 4450
- Leptogenys mutabilis**
 - biology, behaviour 3483
 - forests, Malaysia 3483
- Leptoglossus australis** (see *Fabrictilis australis*)

- Leptoglossus occidentalis*
Pinus monticola, Idaho 6006
Pinus ponderosa, Nebraska 3003
- Leptographium terebrantis*, vectors, *Dendroctonus valens* 10945
- Leptographium wingfieldii*, vectors,
Tomicus piniperda 7963
- Leptoiulus bruyanti*
ecology, population dynamics 10017
forests, France 10017
- Leptomastidea abnormis*
biology, environmental factors 4482
control, *Planococcus citri* 7747
hosts, *Planococcus citri* 4482
orchards, Queensland 7747
- Leptomastix dactylopii*
biology, environmental factors 4482
cold storage 10459
control, *Planococcus citri* 7747
hosts
dates, insect pests 1545
Planococcus citri 4482
orchards, Queensland 7747
- Leptomonas lygaei*, hosts, *Spilostethus pandurus* 10053
- Leptopharsa gibbicarina*
control, insecticides 1543
oil palms, Colombia 1543
- Leptopharsa madrigali*
Phaseolus, Colombia 9790
taxonomy, new species 9790
- Leptophobia aripa elodia*
biology, phenology 9327
Mexico 9327
monitoring 9327
- Leptophos* (O-(4-bromo-2,5-dichlorophenyl) O-methyl phenylphosphonothioate)
toxicity
Epilachna ocellata 2872
Epilachna vigintioctopunctata 5846
- Leptophyes discoidalis*, distribution, Italy 5416
- Leptophyes punctatissima*
biology 7432
reproduction 9984
food plants, UK 9984
Spain 7432
- Leptopiinae*, taxonomy 3246
- Leptopilina heterotoma*
biology, behaviour 9673
hosts, *Drosophila* 9673
orchards, Netherlands 9673
- Leptospermum flavescens*, *Dorathymnus althoferi*, Australia 17
- Leptostylopsis latus*
mangroves, Belize 1401
taxonomy, new species 1401
- Leptothorax*
biology 1866
behaviour 2428
coniferous forests, Canada 195
genetics, polymorphism 195
prey, *Rhyacionia zozana* 1866
Quebec 2428
USA 1866
- Leptothorax acervorum*
biology, behaviour 1843
parasites 11422
Pinus, forests, Sweden 1843
- Leptothorax ambiguus*, marking 2427
- Leptothorax curvispinosus*
biology 4008
Pinus pungens, habitats, Virginia 4008
- Leptothorax kutteri* (see *Doronomyrmex kutteri*)
- Leptothorax longispinosus*, marking 2427
- Leptothorax nylanderi*, biology, behaviour 10410
- Leptothorax spinosior*
prey, *Phyllonorycter* 5014
woodlands, Japan 5014
- Leptothorax wilda*, biology 10192
- Leptothrips*
biology 3970
forest trees, America 3970
taxonomy 3970
- Leptothrips cassiae*
biology 3970
forest trees, America 3970
taxonomy, from *Haplothrips* 3970
- Leptothrips floridensis*
biology 3970
forest trees, America 3970
taxonomy, synonyms, of *Leptothrips pini* 3970
- Leptothrips mali*
peaches, orchards, Georgia 8634
taxonomy, from *Haplothrips* 3970
- Leptothrips pini*
biology 3970
forest trees, America 3970
taxonomy, synonyms, *Leptothrips floridensis* 3970
- Leptopypha mutica*, *Syringa villosa*, Pennsylvania 1758
- Lepturinae*, Taiwan 4395
- Leptus*
hosts
Agrophopus 4685
Cletus signatus 5494
India 4685, 5494
- Leptus ariel*
Guatemala 2485
hosts, *Apis mellifera* 2485
taxonomy, new species 2485
- Leptus clarki*
hosts, *Pogonomyrmex salinus* 7313
taxonomy, new species 7313
- Leptus oxyae*
India 2144
Oxya nitidula, interactions 2144
taxonomy, new species 2144
- Leskia aurea*
hosts, *Sesia apiformis* 4516
Italy 4516
- Lesmone formularis*
French Guiana 11075
pathogens 11075
- Lespedeza cuneata*, Noctuidae, varietal susceptibility 9629
- Lespedeza stipulacea*, *Anticarsia gemmatalis* 11683
- Lespesia*
hosts
Macalla thyrsalis 7943
Spodoptera frugiperda 4634
Swietenia, habitats, Florida 7943
- Lespesia archippivora*
hosts, *Spodoptera frugiperda* 8476
maize, fields, Brazil 8476
- Lethocerus*, physiology, muscles 3300, 11318
- Lethocerus indicus*, physiology, chemical composition 1126
- Lettuce infectious yellows virus*
hosts, *Bemisia tabaci* 11708
vectors, *Bemisia tabaci* 7764, 10754
- Lettuce mosaic potyvirus*
vectors
Aphididae 6853
Myzus persicae 8724
- Lettuces* (*Lactuca sativa*)
Aphididae
Afghanistan 6853
resistance 1609-1610, 4815, 8667, 9750
arthropod pests
Italy 11637
Sicily 11655
Autographa gamma, UK 8808
Bemisia tabaci 8666, 10754
Arizona 7764
Deroceras reticulatum, UK 598
Helix lucorum 5540, 6619
insecticides
degradation 4814
residues 9749
Melanoplus sanguinipes 4440
Nasonovia ribisnigri, British Columbia 597
Noctuidae, California 9635, 11500
pesticides, residues 592
Phyllotreta nemorum 2784
plant oils, toxicity 7764
Thysanoptera 3384
- Leucaena*
Heteropsylla, Indonesia 8380, 8904
Heteropsylla cubana
India 7031
Indonesia 813
- Leucaena leucocephala*
Heteropsylla cubana 6455, 6458
India 7031, 7056
Philippines 820
tropics 7045
yield losses 825
Ithome lassula, varietal susceptibility 7058
- Leucania insecuta*
fruit trees, Korea Republic 3747
monitoring, traps 3747
- Leucania loreyi* (see *Mythimna loreyi*)
- Leucania separata* (see *Mythimna separata*)
- Leucine*, kairomones, *Ascogaster reticulata* 234
- Leucinodes orbonalis*
aubergines 734
India 732-733, 2888-2889, 3855, 6947, 9855, 11757-11760, 11762
control, insecticides 3855, 6947, 11757-11759, 11762
field experimentation, plot size 732
growth regulators, effects 2071
harvesting frequency, effects 733
parasitoids 2888-2889
sampling 734
- Leucocoprinus gongylophorus*
Atta sexdens, symbiosis 11425
plant extracts, toxicity 11425
- Leucoma salicis*
control 5966
parasitoids 3126, 7505
Populus, Italy 5966
- Leucopholis coneophora*
coconuts, India 5697, 6783
control, insecticides 5697
- Leucopholis irrorata*, forest trees, Philippines 11791
- Leucopholis lepidophora*
insecticides, effects 6693
physiology, enzymes 6693
sugarcane 6693
- Leucopis*
biology 9776
forests, India 8917
Indian mustard, fields, India 8685, 9776
prey
Adelges knucheli 8917
Aphididae 9776
Lipaphis erysimi 8685
- Leucoptera coffeina*
parasitoids 2497
tropics 2497
- Leucoptera coffeella* (see *Perileucoptera coffeella*)
- Leucoptera malifoliella*
apples
German Democratic Republic 4760
Spain 8598
biology, phenology 3749
control, insecticides 3749
ecology, population dynamics 4760
fruit trees, Iran 3749
pheromones 8598
- Leucoptera onobrychidella*
distribution, Poland 3431
sainfoin 3431
- Leucoptera scitella* (see *L. malifoliella*)
- Leucoptera susinella* (see *Paraleucoptera sinuella*)
- Leucospermum conocarpodendron*, Formicidae, interactions 10971
- Leucostoma simplex*
biology, phenology 10439
hosts, *Nabis* 10439
legumes, fields, Kentucky 10439
- Leucothrips*
cotton, fields, Brazil 8771
insecticides, effects 8771
- Leucozona lucorum*
biology 6547
distribution, Spain 6547
morphology 6547
- Levamisole*, effects, insects 6342
- Levuana iridescens*
parasitoids 2497
tropics 2497

- Leymus angustus**, *Rhopalosiphum padi*, resistance 11529
- Leymus angustus** × **wheat**, *Rhopalosiphum padi*, resistance 11529
- Leymus arenarius**, *Diuraphis noxia* 3658, 4601
- Liatongus militaris**, pastures, Australasia 11596
- Liatongus phanaeoides**
biology, behaviour 9470
cattle dung, Japan 9470
- Libocedrus decurrens**
forests, *Parechthrodryinus cylococculi*, California 1861
Xylococcus macrocarpae, California 1861
- Libraries**, biology, directories 5233
- Liburnia sordescens** (see *Nilaparvata lugens*)
- Libya**
crops, invertebrates 3407
dates, insect pests, natural enemies 1545
Oligonychus afrasiaticus 500
- Libythea geoffroy nicevillei**
biology 10948
Celtis paniculata, Queensland 10948
morphology 10948
- Libytheidae**
morphology, legs 1049
phylogeny 1049
physiology, pigments 1074
- Ligurotettix coquilletti**
biology, behaviour 5008
Larrea tridentata, California 5008, 6677, 11527
physiology, sense organs 11527
plant extracts, toxicity 6677
- Ligurotettix planum**
biology, behaviour 5008
Flourensia cernua, New Mexico 5008
- Ligustrum**, *Ricania sublimbata*, China 1577
- Ligustrum japonicum**
Argopistes coccinelliformis, Japan 8802-8803
Atta texana, Texas 6518
- Ligustrum lucidum**, *Ericerus pela*, China 789
- Ligustrum obtusifolium**, *Argopistes coccinelliformis*, Japan 8803
- Ligustrum ovalifolium**, *Argopistes coccinelliformis*, Japan 8803
- Ligustrum quihoui**, *Ericerus pela*, China 789
- Ligyris**, pathogens 9730
- Ligyris subtropicus**
control, microbial pesticides 4609
sugarcane
damage 7587
Florida 4609
- Lilac** (*Syringa vulgaris*)
Argopistes coccinelliformis, Japan 8803
Leptophyes punctatissima, UK 9984
Otiorynchus smreczynskii, German Federal Republic 5070
- Liliaceae**, *Catorhintha*, America 349
- Lima beans** (see *Phaseolus lunatus*)
- Limacodidae**
control, insecticides 7713
oil palms, Malaysia 7713
- Limax flavus**
biology, environmental factors 9307
physiology, sense organs 8404
- Limax marginatus**
biology 4565
physiology, reproduction 2542
vegetables, Iraq 4565
- Limax maximus**
biology
behaviour 303
environmental factors 10503
peptides, effects 10498
physiology, water relations 10498
- Limax pseudoflavus**
biology, environmental factors 310
ecology, population density 300
UK 310
- Lime trees** (see *Tilia*)
- Limenitis weidemeyerii**
Aphididae, honeydew 2314
biology, behaviour 2314
Salix, Colorado 2314
- Limes** (*Citrus aurantifolia*)
Brevipalpus phenicis 569
Coccidae, Cuba 9714
Diaphorina citri, India 10732
Hemiptera, Cuba 8642, 9712
insecticides, residues 10731
Nipaeococcus filamentosus, Iran 3804
orchards
Coccophagus pulvinariae, Cuba 9714
Hymenoptera
Cuba 9712
India 1584
predatory mites, Florida 6841
Phyllocnistis citrella
India 7756
Yemen Arab Republic 1576
Polyphagotarsonemus latus
Cuba 9725
Florida 6841
Prodiplosis longifila, Florida 6840
Psorosticha zizyphi, India 1584
Saissetia, Chile 4780
Tetranychidae, damage 10733
- Limnanthes alba** var. *versicolor*, extracts, toxicity, Lepidoptera 7189
- Limnerium taiticum**, taxonomy, to *Microcharops* 3496
- Limnobiium spongia**, *Neohydronomus affinis* 5556
- Limnogonus fossarum**
biology 5666
prey, *Nilaparvata lugens* 5666
rice, fields, Philippines 5666
- Limnomermis**, hosts, *Neochetina* 3626
- Limonene**
attractants
Coleoptera 822
inhibitors, *Hylobius* 8873
mixtures, pheromones, *Velocitermes velox* 3578
- Limoniidae**, taxonomy 5252
- Limonin**
antifeedants, *Leptinotarsa decemlineata* 7823
effects, *Leptinotarsa decemlineata* 9107
- Limonoids**
antifeedants, Noctuidae 12012
effects, *Eldana saccharina* 10164
- Limothrips cerealium**, nontarget effects, fires, alarms 6522
- Limothrips denticornis**
ecology, population dynamics 11533
triticale, Poland 11533
- Linalool**, attractants, Phytoseiidae 7794
- Linamarin**, antifeedants, *Locusta migratoria* 9067
- Lincus hebes**
Palmae, Peru 2699
taxonomy, new species 2699
- Lincus malevolus**
Palmae, Peru 2699
taxonomy, new species 2699
- Lincus spurcus**
Palmae, Peru 2699
taxonomy, new species 2699
- Lindane** ((1 α ,2 α ,3 β ,4 α ,5 α ,6 β)-1,2,3,4,5,6-hexachlorocyclohexane)
control
Agrypnus variabilis 8658
Amrasca biguttula 8669
Aradus cinnamomeus 1784
aubergines, insect pests 11757
Bagrada hilaris 5795
Bradysia tritici 599
Bruchus pisorum 3877
Cardamine cordifolia, insect pests 7707
Chrysobothris femorata 11000
Costelytra zealandica 11598
Curculionidae 10921
forest pests 1804
Holotrichia serrata 359
Odontria striata 466
Oides scutellata 8574
Resseliella theobaldi 3762
rice, insect pests 10628
- Lindane** cont.
degradation
bacteria 12005
Pseudomonas paucimobilis 4206
Rhizopus arrhizus 979
soil 4205, 7219, 7222, 11218
effects
Costelytra zealandica 11597
Crustacea 3178
fishes 9072
legumes 1634
membranes 2051
rats 9077-9078
extraction 3445
measurement 5216
metabolism, rats 9075
mixtures
control
Psammotermes hybostoma 3068
rape, insect pests 6865
effects, rice 6720
nontarget effects
Anabas testudineus 8094
bioassays 9085
field crops 3195
fishes 6194
predatory arthropods 680
rats 4196
soil, microorganisms 2046, 10123
soil fauna 7957
pollution, waste water 4209
properties 11958
residues
air 6208
cereal grains 10038
crabs 8108
fishes 6137
foods 10224
Formicidae 2432
honey 962
nontarget organisms 8092
plants 3205
potatoes 5847
reservoirs 8141
snow 8140
soil 3205, 3445, 4671, 8136, 11598
water 980, 5215, 6206
resistance
Hypothenemus hampei 4955, 10877
Tribolium castaneum 11172
sorption 8136
soil 2004
toxicity
Acrida exaltata 186
Asellus aquaticus 2023
Delphacidae 10104
Dysdercus albofasciatus 6983
fishes 6174
Rhynchophorus cruentatus 9911
stored products pests 846
with fenitrothion, toxicity, fishes 6174
Lindera melissifolia, *Papilio troilus*, Mississippi 2941
Lindorus lophanthae (see *Rhyzobius lophanthae*)
- (+)-Lineatin**
attractants, *Thanasimus formicarius* 2990
mixtures, effects, *Thanasimus formicarius* 2990
pheromones, *Trypodendron lineatum* 2990
- Linseed** (see Flax)
- Linseed oil**, toxicity, *Sitophilus oryzae* 7110
- Linum usitatissimum** (see Flax)
- Linyphiidae**
barley, fields, Sweden 8472
biology, overwintering 8472
cereals, fields, UK 3516
ecology 3889
population dynamics 4681
fields, Netherlands 6526
groundnuts, fields, Texas 3889
meadows, German Federal Republic 4681
monitoring, traps 4681, 6526
pesticides, effects 6526
prey
arthropods 3889
Rhopalosiphum padi 8472

- Linyphiidae** *cont.*
prey cont.
Sitobion avenae 3516, 8470
 wheat, fields, UK 8470
- Liogryllus**
 India 5124
 pathogens 5124
- Liothrips karnyi** (see also *Dolichothrips reuteri*)
 control 9508
 insecticides, toxicity 11521
Piper nigrum 11521
 India 9508
 taxonomy, synonyms, of *Dolichothrips reuteri* 3232
- Liothrips urichi**
 control, *Clidemia hirta* 11508
 Hawaii 11508
- Liotryphon caudatus**
 distribution, USSR 1555
 hosts, *Cydia pomonella* 1555
 orchards 1555
- Liotryphon extensor** (see *L. punctulatus*)
- Liotryphon punctulatus**
 apples, orchards, USSR 2743
 hosts, *Cydia pomonella* 2743
- Lipaphis erysimi**
 attractants 7237
 biology
 behaviour 6497
 environmental factors 11700
 migration 749
 reproduction 1616
- Brassica**
 India 616, 3846, 8673, 9774
 resistance 10762
 Taiwan 2797
- Brassica napus** 1616
 cabbages, India 2807
 China 5179
 Chinese cabbages, China 8679
 control
 cultural control 5787
 insecticides 618-619, 1627, 2797, 2807, 6854, 6874, 11699, 11701
- Cruciferae, India 5787
 distribution, India 1626
 ecology, distribution 8679
 food plants, China 749
 growth regulators
 effects 5218, 5332
 toxicity 9778
 India 6497, 7237, 11290
 Indian mustard, India 1629, 2810, 8685, 9776-9777
 insecticides, toxicity 3172, 5179, 6872, 11986
 monitoring, traps 6497
 morphology 5218, 11290
 mustard 614, 1626
 Bangladesh 6854
 India 1627-1628, 2476, 6872, 6874-6875, 11699-11701
- Myzus persicae**, interactions 9777
 parasitoids 5497, 6864, 6875, 11442
 pathogens 8679
 physiology, enzymes 8226
 plant extracts, effects 614
 predators 2476, 2810, 3503, 3532, 8685, 9776
 radishes 5218, 5497, 9778
 India 618-619
 taxonomy 11290
- Lipaphis erysimi pseudobrassicae** (see *L. erysimi*)
- Lipaphis pseudobrassicae** (see *L. erysimi*)
- Lipeninae**
 morphology, legs 1049
 phylogeny 1049
- Lipolexis scutellaris**
 fields, India 9740
 hosts, Aphididae 3573
 India 3573
 parasitoids 9740
- Liposcelis**, tobacco, commodities, Zimbabwe 3944
- Liposcelis bostrychophilus**
 biology, phenology 1902
 commodities, Manitoba 1902
- Liposcelis entomophilus**
 diets 10380
 rearing techniques 10380
- Liposcelis liparus**
 biology, phenology 1902
 commodities, Manitoba 1902
- Liposcelis rugosus**
 biology, phenology 1902
 commodities, Manitoba 1902
- Liposcelis subfuscus**
 biology, phenology 1902
 commodities, Manitoba 1902
- Liquidambar formosana**, *Actias selene*, Taiwan 4002
- Liquidambar styraciflua**, *Vanonus uniformis* 11816
- Liriodendron tulipifera**, *Lymantria dispar*, allelochemicals 8887
- Liriomyza**
 control 5237
 insecticides 623
 Hawaii 1971
 natural enemies 1971
 watermelons, Brazil 623
- Liriomyza bryoniae**
 biology 4839
 control, biological control 4245
 greenhouse crops, Netherlands 4245, 4536
 greenhouses, Japan 4839
 parasitoids 4536, 9849-9850
 tomatoes 9849-9850
- Liriomyza cicerina**, *Cicer arietinum*, India 2853
- Liriomyza huidobrensis**, greenhouse crops, Norway 8810
- Liriomyza sativae**
 America 6454
 biology 9739
 control
 insecticides 1714
 integrated control 1712
 distribution, maps 6454
 food plants 9739
 Florida 6649
 insecticides, resistance 6160
 parasitoids 6649
 tomatoes
 Central America 1712
 Puerto Rico 1714
 watermelons, Hawaii 3866
- Liriomyza trifolii**
Apium, resistance 8665
 biology 4931, 4975, 5686, 9739
 environmental factors 4971, 8759
Capsicum annuum, varietal susceptibility 9743
 celery, Florida 2789
 chrysanthemums 4971, 7900
 resistance 1751
 USA 4966, 8813
 control
 biological control 4245
 cultural control 8759
 insecticides 2789, 8750, 8813
 integrated control 11782
Dendranthema grandiflora 5912
 distribution, Hungary 11782
 ecology, population dynamics 10791
 field crops, California 7003
 food plants 4931, 4975, 5911, 9739
 Florida 6649
 Italy 5686
 greenhouse crops 11782
 Italy 11779
 Netherlands 4245, 4536
 Norway 8810
 Ontario 9055
 growth regulators, effects 3175
 insecticides
 resistance 4966, 5911, 6160, 7003, 9055
 toxicity 633
 monitoring, traps 7003, 7893
 natural enemies 8759, 11779
 onions, Brazil 8750
 ornamental plants 7893
 parasitoids 4522, 4536, 5912, 6649, 7900, 9849
Phaseolus vulgaris 633
 Cuba 10791
- Liriomyza trifolii** *cont.*
 rearing techniques 633
 tomatoes 8759, 9849
 food preferences 6943
 watermelons, Hawaii 3866
- Liriope muscari**, extracts, effects, *Helicoverpa zea* 5192
- Liris**
 distribution, Chile 1340
 taxonomy 1340
- Liris nigra**, Spain 7320
- Lissorhoptrinae**
 Japan 4277
 morphology 4277
- Lissorhoptrus**
 Japan 4277
 morphology 4277
- Lissorhoptrus brevirostris**
 biology 8507
 control, insecticides 8507
 rice, Cuba 8507
- Lissorhoptrus oryzophilus**
 biology
 behaviour 7581
 control 9588
 phenology 9586
 control 9586
 cultural control 11565
 food plants 7581
 growth regulators, toxicity 5652
 morphology, larvae 21
 research, conferences 10214
 rice 5652
 Arkansas 11565
 Japan 9586, 9588
 Texas 3695
- Listeria**, hosts, invertebrates, isolation 6613
- Listroderes**
 Japan 4277
 morphology 4277
- Listrognathus listrognathus spinifrons**
Ficus elastica, habitats, India 10897
 hosts, *Trilocha varians* 10897
- Listronotus bonariensis**
Acremonium lolii
 interactions 10634
 repellents 7676
 antifeedants 9108
 biology, behaviour 11594, 11600
 control, insecticides 469, 1518
 fertilizers, effects 469
Festuca arundinacea, New Zealand 1518
 grasses, New Zealand 11594
Lolium, New Zealand 10634
Lolium perenne
 New Zealand 469
 resistance 7676, 10638
 morphology, reproductive organs 7681
 pastures, New Zealand 2673, 7681, 11600
 plant pathogens, interactions 10638
 sampling 2673
- Listronotus oregonensis**
 insecticides, pathogenicity 5121
 predators 8733
- Listronotus texanus**
 carrots, Texas 2861
 control, insecticides 2861
- Litchi**
 insect pests
 control, physical control 5757
 damage 5757
- Litchi chinensis**
 books 8158
Conopomorpha cramerella, Taiwan 10737
 extracts, attractants, *Ceratitis capitata* 564, 3211
Notacaphylla chinensiae, India 2774
 orchards, parasitoids, Taiwan 10737
Planococcus litchi 16
Thysanoflorinia leei, India 10716
- Lithobius forficatus**
 biology, behaviour 9294
 forests, Poland 7049
 physiology
 cuticle 111
 endocrine system 9260

- Lithocarpus**
insect pests
Australia 4006
damage 4006
USA 4006
Neocaphyllisa lithocarpi, China 5947
- Lithocarpus densiflorus**, *Phryganidia californica* 3997
- Lithocolletis populifoliella** (see *Phyllonorycter populifoliella*)
- Lithocolletis quercus** (see *Phyllonorycter quercus*)
- Litochila**
morphology 2464
taxonomy 2464
- Litochila nohirai**, hosts, *Parasa consocia* 2464
- Litomastix**
hosts, *Cerapteryx graminis* 1520
Netherlands 1520
- Litomastix floridanum**, taxonomy, to *Copidosoma* 2124
- Litomastix maculata**, taxonomy, synonyms, of *Copidosoma floridanum* 2124
- Litoprosopus futilis**
biology, cannibalism 5044
forests, South Carolina 5044
- Litsea**, *Tegolophus birbhumentis*, India 10977
- Litsea floribunda**, insect pests, India 10979
- Litter**, arthropods, organic wastes, effects 6445
- Litter (plant)**
Acaricoris ignotus, Texas 5001
Hydrophilidae, North America 7306
invertebrates, Mediterranean countries 5382
Isoptera, Kenya 5506
Palaeomymar, Quebec 8846
Setobates, South Australia 6251
Trachytes, Italy 5967
- Liuyangmycin**
mixtures, toxicity, beneficial insects 3497
toxicity, beneficial insects 3497
- Lixomorphus ocularis**
biology 5575
control, *Rumex crispus*, evaluation 5575
Italy 5575
- Lixophaga diatraeae**
genetics
karyotypes 8357
mutations 8358
hosts, *Diatraea saccharalis* 8357
morphology, colour 10253
- Lixophaga unicolor**
forests, North America 7023
hosts, *Hepialus gracilis* 7023
- Lixus**
Cardueae 6645
Japan 4277
morphology 4277
size 6645
- Lixus incanescens**
biology, phenology 684
sugarbeet, Iran 684
- Lixus juncii**
distribution, maps 6458
food plants 6458
- Lixus subtilis**
biology 676
control, insecticides 676
sugarcane, USSR 676
- Lobesia**
control, *Senecio madagascariensis*, evaluation 9490
Senecio madagascariensis, Madagascar 9490
- Lobesia botrana**
biology 2716, 7742
reproduction 6791
control 522, 2716, 6243
insecticides 2690, 8565, 9660
mating disruption 2715
ecology, population dynamics 2708
Europe 6243
fruits, Italy 7742
grapes 2715, 5717
- Lobesia botrana** cont.
grapes cont.
France 7716
German Democratic Republic 2690
Italy 8565, 9660
USSR 522, 2708, 2716
growth regulators, toxicity 5717
monitoring, traps 522, 2708, 7742
pheromones 2715, 9205
plant pathogens, transmission 7716
- Loblolly pine** (see *Pinus taeda*)
- Lochitoencyrtus gahani**
hosts, *Neolithus fasciatus* 1880
Sapium biglandulosum, forests, Brazil 1880
- Locusta**
cell cultures 1099
physiology, nervous system 1099
- Locusta migratoria**
antifeedants 9067
effects 4341
biochemistry
endocrine system 4338
enzymes 9227
muscles 3285
peptides 5337, 10303
biology, behaviour 4374
cell lines 3216
genetics
chromosomes, chiasma frequency 3349
cytogenetics 1135
gene mapping 2289
genes, position 3348
L-Glutamate, effects 6336
growth regulators, effects 2407, 7333
insecticides
effects 11130
toxicity 8090, 11963
microorganisms, interactions 11416
morphology
nervous system 6283, 9222
wings 4445
Pacific Islands 191
pathogens 1217
physiology
cardiovascular system 6365
chemical composition 1218
cuticle 184, 1092
development 7333
endocrine system 1048, 1121, 1276, 2269, 3330, 3333-3334, 4333, 9250, 9259, 10390, 11336
enzymes 42, 1061-1062, 1065, 1069, 5414, 11416
fat body 3275
flight 6297, 9369
haemolymph 77
immune response 2184, 5307
membranes 1071
muscles 7358, 7472
nervous system 84, 1100-1101, 1103, 2248, 3216, 3316, 3473, 3475-3476, 4322, 4324, 4442, 6336-6338, 6340, 8248, 9370, 10291-10294
nutrition 11316
oocytes 7364
phosphorylation 3271
proteins 2407, 9245
respiratory system 8253
secretions 183
sense organs 4443
senses 6347
water relations 115
plant extracts
effects 2407
growth regulators 5415
Tanzania 1217
- Locusta migratoria manilensis**, rice, China 3685
- Locusta migratoria migratorioides**
biochemistry, reproductive organs 2276
biology, behaviour 7413
cereals, Africa 2590
genetics, genes 2288
morphology, nervous system 9184
physiology 5418
cuticle 2231
enzymes 3474
nervous system 1104, 4326, 6335
- Locusta migratoria migratorioides** cont.
physiology cont.
proteins 2288
reproductive organs 3326, 9240
plant extracts, effects 3474
- Locustana pardalina**, cereals, Africa 2590
- Locusts**
physiology, nervous system 6326-6327
research projects 5423
- Lodgepole pine** (see *Pinus contorta*)
- Loensia pearmani**, *Pinus pinaster*, Spain 8830
- Logs**
Coleoptera, Japan 4078-4079
Platypus parallelus 6456
- Lolium**
Graminella nigrifrons 6682
Listronotus bonariensis, New Zealand 10634
Oscinella frit, German Democratic Republic 3652
- Lolium multiflorum**
Cletus punctiger, Japan 2658
Listronotus bonariensis, New Zealand 10634, 11594
Oscinella, damage 6757
Penthaleus major, outbreaks 9610
- Lolium perenne**
Adoryphorus couloni, Tasmania 10641
Costelytra zealandica, New Zealand 6756
fields, parasitoids, Brazil 5601
Hemiptera, New Zealand 8526
Heteronychus arator, New Zealand 470
insect pests, UK 1511
insecticides, effects 1441
Listronotus bonariensis
New Zealand 469, 11594
resistance 7676, 10638
Noctuidae, Brazil 5601
seeds, *Tribolium castaneum*, resistance 7672
- Lomatium**, *Papilio zelicaon*, California 3358
- Lonchaea corticis**
forests, British Columbia 11811
Picea sitchensis, forests, British Columbia 7072
prey, *Pissodes strobi* 7072, 10934, 11811
- Lonchaeidae**
cassava, Trinidad and Tobago 1701
forests, Czechoslovakia 2097
parasitoids 11466
prey, *Pissodes* 6000
USSR 11466
- Lonchocarpus**, extracts, antifeedants, *Spodoptera* 7577
- Lonchocarpus capassa**, *Eriophyes lonchocarpi*, South Africa 9674
- Lonchophorellus**
taxonomy 8653
new genus 8653
- Lonchophorellus callosus**, fruits 8653
- Lonchophorellus scylla**
Psidium cattleianum, South America 8653
taxonomy, new species 8653
- Loncophorus**
Bombaceae, Neotropical Region 1027
taxonomy 1027
- Longans** (see *Dimocarpus longan*)
- Longitarsus jacobaeae**
biology, diapause 4576
California 8417
control, *Senecio jacobaea* 8417
Senecio jacobaea 4576
- Longitarsus nigripennis**
biology 3637
control 3637
Piper nigrum, India 3637
- Longiunguis sacchari** (see *Melanaphis sacchari*)
- Lonicera**
Hyadaphis tataricae, Nebraska 3962
Paraphytomyza luteoscutellata, USSR 8806
Rhagoletis cerasi, Europe 3801
- Lonicera caerulea**, Tortricidae 7895

- Loniceria gracilipes*
habitats, *Diglyphus minoens*, Japan 5569
Phytomyza loniceriae, Japan 5569
Loniceria involucreta, *Hypodryas gillettii*, North America 1757
Loniceria japonica
Aphididae, China 749
extracts, toxicity, *Costelytra zealandica* 11763
Loniceria quinquelocularis, *Prociphilus*, India 5012
Loniceria tatarica complex
biological control 1763
Hyadaphis tataricae, damage 1763
North America 1763
Loofah (*Luffa aegyptiaca*)
Aphis gossypii 3861
India 9740
Aulacophora foveicollis, food preferences 1630
Diaphania indica, China 5782
Epilachna dodecastigma, Indonesia 2553
Epilachna vigintioctopunctata 3860
fields, Hymenoptera, India 9740
pollen, food, *Orius sauteri* 3532
Spodoptera litura, Philippines 5894
Trabala vishnou, India 4840
Loopleure ((Z)-7-dodecenyl acetate)
analogues, pheromones, *Trichoplusia ni* 10276
mixtures
pheromones
Chrysodeixis chalcites 2220
Ochropleura fennica 9209
Trichoplusia ni 8709
pheromones
Agrotis segetum 8540
Trichoplusia ni 7348
Lophobaris piperis
control, cultural control 10530
Piper nigrum, Indonesia 10530
Lophocampa caryae
biology, behaviour 8920
forest trees, Virginia 8920
predators 8920
Lophocateres pusillus
groundnuts, commodities, India 7969
pathogens 7969
Lophopidae
morphology 6253
Taiwan 6253
taxonomy 6253
Lophopilio palpalis
forests, German Federal Republic 4203
pollutants, toxicity 4203
Lophops carinata
morphology 6253
Taiwan 6253
taxonomy 6253
Loquats (*Eriobotrya japonica*)
Colopterus posticus, Florida 4794
Indarbela quadrinotata, India 5010
Planococcus japonicus 16
Planococcus litchi 16
Lordotus pulcherrimus
dunes, habitats, California 10356-10357
ecology 10356-10357
Loricera pilicornis
morphology, mouthparts 3551
physiology, nervous system 6555
Lorita baccharivora
biology, food plants 1390
control, *Baccharis halimifolia* 1390
Florida 1390
Queensland 1390
Lorryia reticulata
biology 1331
USSR 1331
Lorsban (see Chlorpyrifos)
Lotus corniculatus
insect pests, Wisconsin 1528
Miridae, damage 9628
Spodoptera eridania 1513, 8536
Lotus pedunculatus (see *L. uliginosus*)
Lotus tenuis, *Bruchophagus platyperus*, Argentina 3831
Lotus uliginosus, *Costelytra zealandica*, resistance 6773
Loxostege sticticalis
biology 2552
control 322, 2552
microbial pesticides 5794
crops, USSR 916
monitoring 916
USSR 322, 2552, 5794
Lucanidae
China 3235
taxonomy 3235
Lucerne (*Medicago sativa*)
Acyrtosiphon, New Zealand 1532
Acyrtosiphon kondoi, New South Wales 2686
Acyrtosiphon pisum
Australia 3741
Canada 9637
Georgia 6766
Iowa 2677
Manitoba 9283, 10652
North America 1533
Agromyza frontella, Ontario 9642
Agrotis crassa, USSR 11603
Agrotis segetum, USSR 8540
Aphididae
Argentina 5160
damage 3736, 9639
Italy 9631, 11607
Japan 9632
resistance 1534, 7687, 7696
varietal susceptibility 7688-7692
Apion, Poland 4696
arthropods, expert systems 7698
Bruchophagus roddi 3740, 4695, 6459
varietal susceptibility 10653
Cicadellidae
Argentina 6764
Illinois 11604
Colias philodice 6767
Contarinia medicaginis, Poland 2688
Curculionidae, damage 11610
Deroceras reticulatum, damage 327
Empoasca fabae 4697, 8541-8542, 10649
damage 5406, 6772, 7699, 10648
Illinois 4699
New York 6771
resistance 7693, 10656
Epicauta, Kansas 10650
fields
Anaphes diana, Australia 2685
Aphidius, New Zealand 1532
Apis mellifera, California 6769
Bathyplectes curculionis
India 3739
Oklahoma 11608
beneficial arthropods
Italy 9631
Spain 9440
beneficial insects
Kentucky 10439
Ontario 9642
South Australia 3744
Carabidae, Montana 1525
Hymenoptera, Japan 8692
insects, Chile 5690
Microctonus aethiopoides, New Zealand 9641
parasitoids, Yugoslavia 8539
predatory arthropods, California 6642
predatory insects, Japan 9632
Tetrastichus incertus, California 9640
Trioxys complanatus, Sudan 4701
Gonioctena fornicata, USSR 5691
Graphognathus leucoloma
damage 5631
USA 3738
habitats, *Meteorus communis*, Oregon 9634
Helicoverpa armigera, USSR 3833
Hemiptera 2382
Victoria 2710
Hypera
Ontario 9636
USSR 6763
Hypera brunniipennis
Michigan 8482
USA 3743
Lucerne cont.
Hypera postica
California 8791, 9640
India 476-477, 3739
Kentucky 2638, 4698
Oklahoma 2687, 11606, 11608
USSR 7686
varietal susceptibility 7694, 7697
insect pests 10647
California 11605
control, insecticides 478
damage 11611
Montana 1525
USSR 478
insecticides
effects 1441
residues 479, 6762, 11612
Lepidoptera, Japan 1535
Megachile rotundata, pollination 480, 8539
Myllocerus menoni, India 2969
Noctuidae 8709
California 9635, 11500
Oregon 9634
Spain 9440
Ophiomyia centrosematis 2833
Otiorynchus ligustici, Ontario 10651
pest control 5581
pest resistance 8176
Australia, reviews 6768
pesticides, effects 1523
pests, USA 3682
Riptortus clavatus, Japan 8692
Sitona 9014
Sitona discoideus
Australia 2685
damage 10654
New Zealand 6770, 9641
yield losses 1531
Sitona hispidulus, yield losses 2684
Sitona lineatus, Idaho 2678
Sphecidae, Chile 1340
Spilosoma obliqua 595
India 1647
Spissistilus festinus, Arkansas 9638
Spodoptera exigua 9643
Tenebrio molitor, varietal susceptibility 4700
Therioaphis trifolii
Chile 5689
resistance 2681-2682, 7695, 10655
Sudan 4701
Thripidae, Texas 9524
Trichogramma 5478
Lucernic acid, antifeedants, *Tenebrio molitor* 4700
Luciola lateralis, prey, Gastropoda 8402
Ludisia, *Zonitoides nitidus*, damage 6996
Luffa, *Coridius janus* 11704
Luffa acutangula
insecticides, residues 11705
Trabala vishnou, India 4840
Luffa aegyptiaca (see Loofah)
Luffa cylindrica (see Loofah)
Lumbricidae, predators 1708
Lumbricus terrestris
insecticides, residues 11191
molluscicides, effects 951, 975
Luperina irritaria
Italy 9888
monitoring, traps 9888
Luperini
evolution 6866
plant extracts, attractants 6866
Luperodes
control 2831
Vigna radiata, India 2831
Lupins (see *Lupinus*)
Lupinus
extracts, toxicity, *Leptinotarsa decemlineata* 8747
Macrosiphum albifrons
damage 10869
UK 9630
pest control 10783
Lupinus albus
commodities, Bruchidae 8969
extracts, toxicity, *Tyrophagus putrescentiae* 4067
Lygus, Washington 2680

- Lupinus albus** *cont.*
Macrosiphum albifrons, German Federal Republic 3636
- Lupinus arboreus**
Macrosiphum albifrons, UK 9630
Uresiphita reversalis, California 5550
- Lupinus augustifolius**, *Macrosiphum albifrons*, German Federal Republic 3636
- Lupinus hartwegii**, *Helicoverpa armigera*, damage 6997
- Lupinus termis** (see *L. albus*)
- Luteovirus** group, vectors, Hemiptera 11062
- Luxan permethrin** (see Permethrin)
- Luzulaspis**
Romania 7311
taxonomy 7311
- Luzulaspis luzulae**, distribution, Italy 9285
- Lycaena dispar**
biology, development 1404
Rumex hydrolapathum 1404
- Lycaena hyllus**
biology, behaviour 10520
parasitoids 10520
Polygonum, Minnesota 10520
- Lycaena phlaeas**, distribution, UK 154
- Lycaenidae**
British Isles 1003
California 2159
distribution
Afghanistan 8302
India 7443
Iran 6472
Switzerland 159
morphology
larvae 2159
legs 1049
phylogeny 1049
physiology, pigments 1074
taxonomy 1003, 2159, 6472
- Lychnis chalconica**, ecdysterone, sources 8413
- Lycia hirtaria**
forest trees, USSR 4029
parasitoids 4029
- Lycopersicon**, *Macrosiphum euphorbiae*, resistance 7837
- Lycopersicon esculentum** (see Tomatoes)
- Lycopersicon hirsutum**, *Tetranychus urticae*, resistance 7836
- Lycopersicon hirsutum f. glabratum**
Helicoverpa armigera, varietal susceptibility 2885, 3918
insect pests, resistance 11753
- Lycopersicon hirsutum f. hirsutum**
extracts, toxicity, *Leptinotarsa decemlineata* 724, 9848
Leptinotarsa decemlineata, resistance 724
- Lycopersicon pennellii**, extracts, deterrents, *Macrosiphum euphorbiae* 2884
- Lycopus lucidus**, *Pyrausta phoenicealis*, China 9509
- Lycoriella auripila**
mushrooms 7765
pathogens 7765
- Lycoriella mali**
growth regulators, effects 2790
insecticides, resistance 2792
mushrooms 2790
USA 2792
predators 8668
- Lycoriella solani** (see *L. mali*)
- Lycosa**, physiology, reproductive organs 4330
- Lycosa helluo** (see *Alopecosa helluo*)
- Lycosa pseudoannulata**
biology, behaviour 7516, 7641, 11578
prey
Hemiptera 7516
Homoptera 7641
Nilaparvata lugens 10617, 11578
rice, fields, Philippines 7641
- Lycosa rabida**
biology, behaviour 1305
New York 9406
predators 9406
- Lycosidae**
biology
behaviour 1305
- Lycosidae** *cont.*
biology *cont.*
environmental factors 11438
ecology 3889
population dynamics 4681, 11556
groundnuts
fields
India 8722
Texas 3889
meadows, German Federal Republic 4681
monitoring, traps 4681
prey
arthropods 3889
Hemiptera 11556
rice, arthropod pests 3693
USSR 11438
- Lycostomus praeustus**, *Ziziphus mauritiana*, India 11672
- Lyctidae**, forest trees, Solomon Islands 838
- Lyctus brunneus**
control, controlled atmospheres 5079
museum specimens 5079
- Lyctus sinensis**, biology, development 10043
- Lydella grisescens**
China 8037
pathogens 8037
- Lydella thompsoni**
biology 11609
entomopathogens, interactions 890
hosts, *Ostrinia nubilalis* 890, 11609
maize, fields, Italy 11609
- Lydina**
forests, North America 7023
hosts, *Heptalus gracilis* 7023
- Lygaeidae**
cotton, Africa 5884
fire, effects 7670
grasslands, Utah 7670
monitoring, traps 7670
natural enemies 7569
- Lygaeus equestris**
biology 7569
Italy 7569
natural enemies 7569
Vincetoxicum hirundinaria 7569
- Lygaeus pandurus** (see *Spilostethus pandurum*)
- Lygidolon laevigatum**, *Acacia mearnsii*, South Africa 5040
- Lygocoris communis**, apples, Quebec 8588
- Lygus**
carrots, Poland 4878
control
insecticides 4878
physical control 1547
cotton, Arizona 2919, 7867
Poland 6857
sampling 7867
strawberries 1547
- Lygus elisus**
control, insecticides 2680
Lupinus albus, Washington 2680
- Lygus hesperus**
control, insecticides 2680
ecology, distribution 4843, 7792
Idaho 11166
insecticides, resistance 11166
lentils, USA 4843, 7792
Lupinus albus, Washington 2680
parasitoids 208, 2448, 6571
physiology, enzymes 11166
Pseudotsuga menziesii, Oregon 1776
sampling 7792
- Lygus lineolaris**
Amaranthus retroflexus, Quebec 6652
apples, Quebec 8612, 11646
Aster pilosus, Mississippi 1388
biology
environmental factors 6786
phenology 1663
conifers, North America 7955
control 9651
insecticides 7855, 8612
cotton
Mississippi 1735
resistance 7855
Lotus corniculatus, Wisconsin 1528, 9628
parasitoids 6571, 6652
- Lygus lineolaris** *cont.*
predators 1388, 1734-1735, 8377
sampling 9651
soyabeans
Arkansas 1663
Mississippi 6892
strawberries, Quebec 6786, 9651
weeds, USA 1397
- Lygus pratensis**
asparagus, German Federal Republic 3839, 10753
control
cultural control 1657
insecticides 3839
sampling 1657
soyabeans, Nepal 1657
- Lygus rugulipennis** 6857
biology, phenology 8461
ecology, population dynamics 9611
grasslands, UK 9611
monitoring 8461
Poland 6857
predators 8461
sugarbeet, Finland 9486
wheat, Hungary 8461
- Lymantria dispar**
biochemistry
amino acids 11346
proteins 11347
biology 527, 3000, 9972
behaviour 132, 1842, 6425, 10001
development 8866
environmental factors 8897, 9977
fecundity 7956
cell lines, insecticides, toxicity 10060
China 8037
Connecticut 11444
control 527, 7947
biological control 11815
growth regulators 11831
insecticides 810, 1802, 3000, 3006, 11824
integrated control 1785, 10002
mating disruption 793, 10952
microbial pesticides 1834, 2998, 4009, 4032, 5940, 5981, 7954, 8823, 8869, 9966
diets 1839, 2316, 7024
ecology 8823
distribution 7961, 8900
population dynamics 5017, 5043, 7944, 8822, 10960
food plants 8866
forest trees 5938, 7933, 8883, 10957
allelochemicals 8887
Bulgaria 8822-8823
Connecticut 7062, 7961, 8897, 9955
Czechoslovakia 4032
food preferences 7965
France 3012
Hungary 5017, 10002, 11831
Maryland 4009, 10952, 11824
Massachusetts 5940, 11810
North America 11815
Ontario 7954
Pennsylvania 8900, 9933, 9966
USA 7947, 9977, 11008
Virginia 10013
forests, German Federal Republic 2998
fruits, USSR 527
glycosides, effects 2316
Ilex opaca, allelochemicals 8888
insecticides
effects 5178, 11131
pathogenicity 4112
toxicity 1938, 10953
Italy 7956
Japan 1170, 1842
kairomones 9403
marking 5019
monitoring 7944
traps 793, 7961
morphology 527
natural enemies 5017, 7944, 8822, 10002, 11824
North America 7956
reviews 7944
parasitoids 2982, 3000, 3012, 4016, 7530, 8364, 9403, 9972, 11443, 11810

***Lymantria dispar* cont.**

- pathogens 892, 1946, 3006, 4094, 4106, 4109, 4115, 4562, 5112, 5117, 6089, 6093, 6097, 7024, 7150, 7959, 8037, 8883, 10080, 11008, 11064, 11929
- transmission 9970
- pheromones 6304-6305
- responses, measurement 132
- physiology
 - digestive system 5938
 - endocrine system 3321, 6304, 11339
 - enzymes 6305, 7933
 - nutrition 10957
 - reproduction 2261
- Populus* 5178, 10953
- predators 1170, 1842, 4020, 5043, 7062, 7961, 9955, 11444
- Quercus*
 - Connecticut 5043
 - France 4016
 - Maryland 3000
 - Romania 2982
 - USSR 793, 810, 1802
- Quercus muehlenbergii*, Maryland 1834
- Quercus palustris* 5019
- Quercus petraea*, Bulgaria 5981
- Quercus rubra*
 - New York 1839
 - Ontario 8869
- Quercus suber*, Morocco 10001
- Quercus velutina*, Massachusetts 7959
- sampling 10013, 10210
- USA 1785, 3006, 5245, 7948
- Lymantria marginata*, physiology, growth 8218
- Lymantria monacha*
 - biology
 - diapause 3041
 - environmental factors 2951
 - control
 - insecticides 810, 5067
 - trapping 8824
 - ecology, population dynamics 5071
 - forest trees
 - Czechoslovakia 8824
 - Poland 5067
 - USSR 3041
 - growth regulators, toxicity 10987
 - monitoring 7932
 - traps 2951, 5071
 - pheromones 2951
- Picea abies*, Czechoslovakia 2951
- Pinus*
 - German Federal Republic 5071
 - USSR 810
 - Pinus sylvestris*, German Democratic Republic 7932
- Lymantria obfuscata*
 - biological control agents, evaluation 5245
 - trees, India 5245
- Lymantriidae**
 - crops, Spain 1373
 - distribution, Spain 6218
- Lymexylonidae**, fungi, interactions 4036
- Lymnaea luteola*, plant extracts, toxicity 10099
- Lymnaea stagnalis*
 - molluscicides, effects 950
 - physiology, nervous system 4568, 5545, 10500
- Lymnaea truncatula*, control, molluscicides 6623
- Lyonetia prunifoliella malinella*, control 7724
- Lyonetia speculella*
 - apples, West Virginia 9689
 - ecology, distribution 9689
 - insecticides, effects 9689
- Lyonetiidae**, crops, Spain 1373
- Lydodidae**
 - Araucaria*, wood, Brazil 11890
 - ecology, distribution 11890
- Lysimachia clethroides*, *Leipothrix lysimachiae*, China 5948
- Lysiphlebia mirzai*
 - fields, India 9740
 - hosts, Aphididae 3573
 - India 3573
 - parasitoids 9740

Lysiphlebus

- hosts, Aphididae 2137
- morphology 2137
- taxonomy 2137
- Lysiphlebus delhiensis***
 - fields, India 9740
 - grasslands, India 3648
 - hosts
 - Aphididae 3573
 - Melanaphis* 3648
 - India 3573
 - parasitoids 9740
- Lysiphlebus fabarum***
 - biology 9719
 - hosts
 - Aphididae 9719
 - Aphis* 3771
 - vineyards, Romania 3771
- Lysiphlebus testaceipes***
 - biology 9719
 - China 4921
 - control, Aphididae 4921
 - distribution, Mediterranean countries 4492
 - hosts, Aphididae 2612, 4492, 4921, 9719
 - Texas 2612
- Macadamia**
 - Australia, conferences 2105
 - Maladera matrida*, damage 2691
 - Pseudotheraptus wayi*, damage 10714
- Macalla thyrsalis***
 - biology 7943
 - parasitoids 7943
 - Swietenia*, Florida 7943
- Macbal** (see 3,5-Dimethylphenyl methylcarbamate)
- Macdunnoughia confusa***
 - cold resistance 7403
 - Italy 9888
 - monitoring, traps 3139, 9888
 - USSR 3139
- Mace**, extracts, toxicity, Coleoptera 1415
- Machaerium aculeatum***
 - Anadiplosis*, galls 1880
 - forests, *Eurytoma minasensis*, Brazil 1880
- Macchilidae**, distribution, USSR 4398
- Maconellicoccus bardus***, taxonomy, to *Chorizococcus* 7085
- Maconellicoccus hirsutus***
 - control, biological control 8570
 - Corchorus*, India 8022
 - distribution, maps 6457
 - food plants 6457
 - Formicidae, interactions 6624
 - grapes 6789
 - India 518, 6790, 8570
 - parasitoids 239, 6790
 - pathogens 8022
 - predators 6789
 - reviews 6624
- Macrargus rufus***
 - forests, German Federal Republic 4203
 - pollutants, toxicity 4203
- Macrocentrus***
 - China 8037
 - pathogens 8037
- Macrocentrus grandii***
 - attractants 5470
 - biology, behaviour 5470
 - host plants, attractants 5613
 - hosts, *Ostrinia nubilalis* 5470, 5613
- Macrocentrus linearis***
 - China 8037
 - hosts, *Ostrinia furnacalis* 7511
 - insecticides, toxicity 7511
 - pathogens 8037
- Macrocentrus rossemi***
 - Citrus*, orchards, Italy 2765
 - hosts, *Archips rosanus* 2765
- Macrocheles**
 - Cuba 8356
 - morphology 8356
 - prey, *Anastrepha suspensa* 8356
 - Tenebrionidae, phoresy 1171
 - USSR 1171
- Macrocheles glaber***
 - morphology 2125
 - taxonomy 2125

Macrocheles scarabae

- Catharsius pithecius*, interactions 2144
- India 2144
- taxonomy, new species 2144
- Macrochelidae**
 - biology, behaviour 4447
 - hosts, Formicidae 4447
- Macrocyphonistes kolbeanus***
 - distribution, Africa 3508
 - morphology, mouthparts 3508
 - prey, *Apis mellifera* 3508
- Macroglenes penetrans*** (see *Pirene penetrans*)
- Macroheterocera**, distribution, Spain 5391
- Macrolepidoptera**
 - biology 8801
 - Rosaceae, Hungary 8801
- Macrolophus caliginosus***
 - diets 4480
 - prey, *Ephestia kuehniella* 4480
 - rearing techniques 4480
- Macroneura**
 - California 4590
 - hosts, *Coleophora klimeschiella* 4590
- Macroneura pedatoria***
 - hosts, *Melanagromyza hibisci* 6862
 - okras, fields, India 6862
- Macropes harringtonae***, *Pleioblastus amarus*, China 8440
- Macropes maai***, *Phyllostachys viridis*, China 8440
- Macropes slateri***
 - bamboos, China 8440
 - taxonomy, new species 8440
- Macropes tinctus***
 - control, insecticides 4611
 - sugarcane, Pakistan 4611
- Macrophomina phaseolina***, insecticides, effects 2036
- Macrophyta**
 - biogeography 8197
 - Italy 8197
 - Japan 1863
 - prey, *Toxoptera odinae* 1863
 - taxonomy 8197
- Macropsis fumipennis***
 - control 3035
 - Gleditsia* 3035
 - Gleditsia triacanthos*, Ohio 10951
 - sampling 10951
- Macroptilium lathyroides***, *Selenisa sueroideis*, Florida 7489
- Macroscytus brunneus***, food plants, Turkey 2891
- Macrosiphini**
 - biology, behaviour 1398
 - monitoring, traps 1398
 - weeds, New Zealand 1398
- Macrosiphoniella sanborni***
 - Chrysanthemum*, Israel 1760
 - control, microbial pesticides 775
 - greenhouse crops, German Democratic Republic 775
 - parasitoids 1760
- Macrosiphum albifrons***
 - biology 3636
 - overwintering 9630
 - distribution, German Democratic Republic 10869
- Lupinus*
 - damage 10869
 - German Federal Republic 3636
 - UK 9630
- morphology 10869
- pathogens 3636, 10869
- plant pathogens, transmission 10869
- Macrosiphum avenae*** (see *Sitobion avenae*)
- Macrosiphum euphorbiae***
 - biology
 - behaviour 261
 - phenology 9827
 - control, insecticides 702, 7820, 9833
 - feeding, bioassays 6489
 - lettuces, resistance 1609, 8667, 9750
 - Lycopersicon*, resistance 7837
 - natural enemies 9827
 - parasitoids, interactions 261
 - plant extracts, deterrents 2884
 - plant pathogens, transmission 702, 5125, 9833, 10830, 10886
 - potatoes 261, 7820

- Macrosiphum euphorbiae** *cont.*
 potatoes *cont.*
 Brazil 9827
 Minnesota 9833
 Switzerland 10830
 UK 8739
 USSR 702
 predators 8739
 strawberries, Norway 10674
 tulips, Washington 10886
- Macrosiphum funestum**
 physiology, enzymes 9655
 taxonomy 9655
- Macrosiphum miscanthi** (*see* *Sitobion miscanthi*)
- Macrosiphum pisum** (*see* *Acyrtosiphon pisum*)
- Macrosiphum rosae**
 food plants, German Federal Republic 9918
 genetics 1129
 clines 786
 phenotypes 9918
 parasitoids 9918
 pathogens 3116
 physiology, enzymes 3277
 roses, North America 786
 strawberries, Norway 10674
 USSR 3116
- Macrosiphum salviae**
 biology, phenology 4676
 monitoring, traps 4676
 sorghum, Venezuela 4676
- Macrosiphum solanifolii** (*see* *M. euphorbiae*)
- Macrosteles**
 evolution 6247
 taxonomy 6247
- Macrosteles fascifrons**
 plant pathogens, transmission 1932
 predators 4672, 9593
 rice, California 4672, 9593
- Macrosteles fascifrons complex**
 evolution 6247
 taxonomy 6247
- Macrosteles laevis**
 apples, orchards, German Federal Republic 3785
 plant pathogens, transmission 3785
Plantago major 3785
- Macrosteles purpurata**
 biology 1605
 control 1605
 food plants, China 1605
- Macrosteles severini**
 evolution 6247
 taxonomy 6247
- Macrosteles striifrons**
Anemone coronaria, Japan 5565
 plant pathogens, transmission 5565
- Macrosyrphus**
 biology 9763
 prey, *Brevicoryne brassicae* 9763
- Macrotermes**
 biology 1779
 control 1779
 food plants, Kenya 5513
 forest trees, damage 831
 taxonomy 6598
Termitomyces, interactions, reviews 4554
 trees, India 1779
- Macrotermes barneyi**
 attractants 9462
 biology, behaviour 9462
 China 9457, 9462
 control, trapping 9462
 ecology, population dynamics 9457
 fungi, interactions 9462
- Macrotermes bellicosus**
 Africa 9461
 anatomy, labial glands 284
 biology 6598
 ecology, population dynamics 5524
 genetics 6598
 hedges, Uganda 5523
 Ivory Coast 284, 5524
 Kenya 6598
Termitomyces, symbiosis 9461
- Macrotermes herus**
 biology 6598
- Macrotermes herus** *cont.*
 genetics 6598
 Kenya 6598
- Macrotermes jeanneli**
 biology 6598
 genetics 6598
 Kenya 6598
- Macrotermes michaelseni**
 biology 6598
 behaviour 5514
 development 11484
 ecology, population dynamics 5515
 fungi, symbiosis 11484
 genetics 6598
 Kenya 5514-5515, 6598, 11484
 predators 5514-5515
- Macrotermes muelleri**
 Congo 5512
 forests 5914
 fungi, interactions 3579
 physiology
 digestive system 3579
 enzymes 4550, 5516
 soil, interactions 5512, 5914
Termitomyces, interactions 4550
- Macrotermes natalensis**
 control 5041
 insecticides 4010
Eucalyptus, South Africa 5041
Eucalyptus grandis, South Africa 4010
- Macrotermes subhyalinus**
 Africa 9461
 biology 6598, 11482
 ecology, population dynamics 5515
 food plants, Nigeria 5508
 genetics 6598
 Kenya 5515, 6598, 11482
 predators 5515
Termitomyces, symbiosis 9461
- Macrotermitinae**
 ecology, population dynamics 5520-5521
 forest trees, damage 831
 Ivory Coast 5520-5521
 soil, interactions 5512
Termitomyces, interactions, reviews 4554
- Macrothrix**, insect growth regulators,
 effects 2755
- Macrothylacia rubi**
 Europe 9341
 monitoring, traps 9341
- Macrotoma palmata**, *Citrus*, Ethiopia 1582
- Macrotyloma uniflorum**, pesticides, effects 1523
- Maculinea alcon**
 biology 9379
 Europe 9379
Myrmica ruginodis, interactions 9379
- Maculinea arion**
 biology 9379
 Europe 9379
Myrmica sabuleti, interactions 9379
- Maculinea nausithous**
 biology 9379
 Europe 9379
Myrmica rubra, interactions 9379
- Maculinea rebeli**
 biology 9379
 Europe 9379
Myrmica schencki, interactions 9379
- Maculinea teleius**
 biology 9379
 Europe 9379
Myrmica scabrinodis, interactions 9379
- Mada**, taxonomy 1036
- Mada polluta**
 biology 630
 crops, Mexico 630
 natural enemies 630
 taxonomy 1036
- Madagascar**
 Aphididae 10226
Atherigona alaotrana 6680
 cotton, Heteroptera 5884
Dialeurolonga maculata 10717
Eonaphis 4253
 field crops, arthropod pests 1011
Hydrometra 830
Magnocellus madagascariensis 814
Scaptomyza 11703
- Madagascar** *cont.*
Senecio madagascariensis, natural enemies 9490
 Tortricidae 10230
- Madeira**
Danaus plexippus 6656
Galactites tomentosa, insects 4592
 Tephritidae 4592
- Madhuca longifolia**
 extracts
 effects, Delphacidae 3700
 toxicity, snails 10099
- Madurasia obscurella**
 biology, phenology 3869
 control 2831
Lablab purpureus, India 3869
Vigna radiata, India 2831
- Magdalinae**, taxonomy 3246
- Magdicada**
 biology
 models 10327
 reproduction 8219
 ecology, population dynamics 8923
 habitats, Arkansas 5357
 soil, Kentucky 8923
 USA 8219
- Magdicada cassinii**
 biology, phenology 126
 Ohio 126
 physiology, sense organs 4327
- Magdicada septedecim**
 biology, phenology 126
 Ohio 126
- Magdicada septedecula**
 biology, phenology 126
 Ohio 126
- Magnesium fertilizers**, effects, *Spodoptera frugiperda* 8480
- Magnocellus madagascariensis**
 forests, Madagascar 814
 taxonomy, new species 814
- Magnolia virginiana**, *Papilio glaucus*,
 Florida 6661
- Magnoliaceae**
Papilio alexiarses, Mexico 10896
Papilio glaucus × *P. pilumnus* 4003
- Maize** (*Zea mays*)
Agrotis
 damage 4644
 Italy 7609
Agrotis ipsilon
 Colorado 3669
 damage 11544
 Iowa 9564, 10592
 Taiwan 1604
 Aphididae
 France 2634
 German Democratic Republic 10579
 German Federal Republic 4653
 Hungary 8446
 Quebec 6714
 UK 8443
 arthropod pests
 Africa 1011
 Asia 3416
 Cape Verde 151
 China 8064
 Italy 11635-11636
 monitoring 8064
 Sardinia 11620
 arthropods, North Carolina 2601, 7614
Astylus, Brazil 3670
Atherigona
 India 414-416
 varietal susceptibility 11552, 11554
Atta texana, Texas 6518
 attractants
 Eucelatoria bryani 7873
 Macrocentrus grandii 5613
 Sitophilus oryzae 10037
Blissus leucopterus
 damage 9555
 Louisiana 7613
Buphonella murina, damage 5628
Busseola fusca
 Africa 6459
 Ethiopia 407, 6711
 South Africa 4635
 varietal susceptibility 2630
 yield losses 412

Maize cont.

- Chaetocnema pulicaria*, New York 1450
Chilo partellus 5615, 6698
 Kenya 1430, 6712
 resistance 9575, 11587
 Chrysomelidae, resistance, genetic engineering 11114
Cicadulina chinai, Egypt 10552
Cicadulina mbila 1449, 6455
 Coleoptera
 damage 9574
 Ecuador 2625
 commodities
 Coleoptera 8952, 11886
Corcyra cephalonica 7086
 diets, *Helicoverpa armigera* 9360
Ephestia kuehniella 1903
 insect pests 5091-5092, 11030
 Georgia 3052
 losses 3054
 Mexico 10023
 resistance 8953
 insecticides
 effects 5094
 residues 7105
Oxycaenus hyalinipennis 6055
Palembus dermestoides 6026
 pest control 8477
Prostephanus truncatus 10030
 India 858
 losses 3055
Sitophilus 8944
Sitophilus oryzae 5087, 5096
Sitophilus zeamais 4065, 10028
 damage 3053
 resistance 5095, 6030-6031
 varietal susceptibility 5088, 7983, 10040
Sitotroga cerealella 7096
 varietal susceptibility 3059
 stored products pests 7087
 Brazil 859
Conoderus exsul, New Zealand 4688
Dalbulus 10589
Dalbulus maidis 10583
 Florida 10584
 Nicaragua 8493
Delia platura, varietal susceptibility 11550
Deroceras reticulatum, damage 327
Diabrotica
 Illinois 2636, 11543
 Iowa 9553
 Missouri 4647
 Pennsylvania 9550
Diabrotica barberi, New York 8484-8485
Diabrotica undecimpunctata, damage 1455
Diabrotica virgifera 4650, 5618, 9551, 11541
 damage 413, 2639, 11546, 11548-11549
 Missouri 9567
 Nebraska 11545
 South Dakota 1451, 8474, 10588, 10595
Diatraea grandiosella
 Mexico 4637
 North America 4638
 Texas 4643, 9558, 9566, 9570, 11551
Diatraea lineolata 5621
Diatraea saccharalis, Louisiana 9609
 diets, *Zaprionus indianus* 3824
Elasmopalpus lignosellus, Bolivia 4640
 Epilachninae, Mexico 630
Euschistus
 damage 8475
 yield losses 5625
 extracts
 attractants
Eucelatoria bryani 7873
Orius insidiosus 233
 Tephritidae 3144
 effects, *Carpophilus hemipterus* 8498
 fields
 beneficial arthropods, Spain 9440

Maize cont.

- fields cont.
 beneficial insects
 Georgia 7608
 USSR 1457
Calosoma alternans, Brazil 11720
 Carabidae, Ohio 10963
Chelonus insularis, Honduras 4634
 Collembola 10598
Doru luteipes, Brazil 5623
Horismenus elineatus, Bolivia 4640
 insecticides, degradation 9097
Myosoma nyanzaensis, Kenya 1430
Orius tristicolor, California 8662
 parasitoids
 Brazil 8476, 8478
 Italy 11609
 USSR 2587
Platytenomus busseolae, Greece 8481
 predatory arthropods, Texas 9566
 predatory insects
 German Federal Republic 4653
 Quebec 6714
 predatory mites, Hungary 8486
Telenomus remus, Venezuela 9561
Trichogramma
 Mexico 403, 4637
 Romania 5630
 Trichogrammatidae, Italy 11542
Frankliniella occidentalis 9546
 California 8662
 fumigants, toxicity 7602
 Gastropoda, Belgium 6627
Graminella nigrifrons 6682, 11528
 habitats, *Diagonogastra*, North America 5584
Helicoverpa armigera 596
 Australia 11164
 Taiwan 6710
Helicoverpa zea 2278, 5355
 damage 9548
 resistance 410, 9554, 9565
 varietal susceptibility 8490
 Hemiptera, Reunion 3666
Hydraecia immanis, USA 5624
 insect pests 8477
 biology, behaviour 7610
 control
 insecticides 5616
 integrated control 6719
 damage 3674, 3680-3681
 India 5616
 Japan 3679, 7610
 Kentucky 2638
 Mexico 402
 resistance 411, 7603, 8500
 Romania 5629
 South Africa 417, 9573
 Taiwan 2635
 USSR 2587
 yield losses 2629
 insecticides
 effects 3195, 6708, 7580, 8483, 10122
 resistance 8499
 toxicity 416
 insects
 ecology 6242
 herbicides, effects 1457
 sampling 6242
 USSR 1457
 integrated pest management 1453
 intercropping
 cassava, pest control 11747
 cotton, pest control 5874
 soyabeans, pest control 4812
 squashes, beneficial arthropods 11710
 Isoptera
 damage 5508
 yield losses 2591
Laodelphax striatella, Korea Republic 5612, 11538, 11557
 Lepidoptera 6460
 Australia 7861
 Benin 10602
 Brazil 8479
 Ivory Coast 10594
 resistance 2624, 7606
 Spain 1373

Maize cont.

- Lepidoptera cont.
 Syria 4652
 tropics 10603
 USA 8482
 microbial pesticides, persistence 5622
 mites, Hungary 8486
Mythimna loreyi, China 3654
Mythimna separata 355
 India 11555
 varietal susceptibility 399
Nala lividipes, Queensland 10597
 Noctuidae 8488
 Brazil 3671
 Spain 9440
 varietal susceptibility 8492
 oils, effects, *Callosobruchus chinensis* 3082
Oligonychus pratensis, economic thresholds 10593
Oscinella frit
 damage 4649
 Poland 6718
Ostrinia, China 10590
Ostrinia furnacalis
 China 3673
 Philippines 8495
Ostrinia nubilalis 418, 1106, 5614, 6549
 damage 1456, 5619, 11540
 France 3677, 10596
 German Federal Republic 10600
 Hungary 8487
 Illinois 4654
 Iowa 11539
 Italy 11542, 11609
 Maryland 3667
 Minnesota 10586
 Nebraska 2631, 10591
 New York 4641
 North Carolina 7612
 Ontario 4642
 resistance 1452, 2633, 2640, 5617, 9569, 9571, 10604, 11547
 Romania 5630
 Turkey 2626, 8496
 USSR 4655
 varietal susceptibility 4645-4646, 7605, 10605
 yield losses 1454
Papaipema nebris 9549
 Iowa 8494
 Ohio 8489
Peregrinus maidis 3678
 Venezuela 9563
Perkinsiella saccharicida 6456
 pest control 5581
 bibliographies 2083
 Israel 405
 Italy 7611, 8483
 USSR 401
 Zimbabwe 1600
 pest resistance 8501, 9121
 pesticides, residues 10606
 pests, UK 10190
 pollen, *Brinckochrysa scelestes* 11467
Pomacea, Philippines 454
 products
 diets, *Helicoverpa armigera* 9360
Ephestia cautella 11020
Prostephanus truncatus, Tanzania 6715
Psila rosae, Netherlands 4870
 Pyralidae
 damage 2632
 Mexico 10587
 North America 5584
 resistance 4651
Pyrilla, damage 3675
Pyrilla perpusilla, India 11553
Rhopalosiphum, Egypt 406
Rhopalosiphum maidis
 America 6717
 USA 9552
Saccharosydne saccharivora 9522
Schizaphis graminum 11532
 semiochemicals, effects, *Diabrotica virgifera* 4650
Sesamia inferens 2627
Sesamia nonagrioides 10601
 Greece 408, 8481
Sitobion avenae, Italy 2604

- Maize cont.**
Somaticus geniculatus 6716
 Sphecidae, Chile 1340
Spilosoma obliqua 2782
Spodoptera exempta, Kenya 409
Spodoptera exigua, Turkey 9560
Spodoptera frugiperda 6709, 8480
 Brazil 5623, 8476, 8478
 Connecticut 3676
 damage 9568
 economic thresholds 7582
 Florida 4633
 Georgia 7608
 Honduras 2637, 4634
 Louisiana 6697
 Mexico 403-404
 New Jersey 8497
 resistance 1448, 10599
 varietal susceptibility 8491
 Venezuela 9561-9562
 yield losses 4639
Spodoptera litura 11501
 Philippines 5894
Systema basalis 4376
 Tenebrionidae, damage 9572
Tetranychus urticae, resistance 7607
 Thripidae, Texas 9524
 Thysanoptera, damage 9556
 toxicity, *Sitophilus zeamais* 7102
Trichogramma 5478
 yield losses, assessment 2629
- Maize bushy stunt mycoplasma**
 vectors
 Dalbulus 874
 Dalbulus maidis 10584
- Maize bushy stunt spiroplasma**, vectors,
Dalbulus maidis 10583
- Maize dwarf mosaic potyvirus**, vectors,
Schizaphis graminum 7604
- Maize mosaic rhabdovirus**
 hosts, *Peregrinus maidis* 7657
 vectors
 Peregrinus maidis 3666
 Rhopalosiphum maidis 6717
- Maize oil**
 attractants, *Sitophilus oryzae* 10037
 effects, *Callosobruchus maculatus*
 6047
- Maize rayado fino marafivirus**, vectors,
Dalbulus maidis 10583
- Maize streak geminivirus**, vectors, *Cicadulina mbila* 1449, 3666
- Maize stripe tenuivirus**, vectors, *Peregrinus maidis* 3666
- Maize stunt spiroplasma**, vectors, *Dalbulus maidis* 10583-10584
- Maize yellow stripe virus**, vectors, *Cicadulina chinai* 10552
- Majorana hortensis** (see *Origanum majorana*)
- Makisterone A**
 effects
 Hieroglyphus nigrorapetus 3210
 Locusta migratoria 11336
- Malabar grass** (see *Cymbopogon flexuosus*)
- Malacocoris**, apples, orchards, Switzerland 8616
- Malacodea regelaria**
 biology, development 5057
Picea abies, Sweden 5057
- Malacosoma americanum**
 apples, New York 4742
 biology
 behaviour 4742
 development 1808
 environmental factors 9318
 food, rats 7468
 New Jersey 9318
Prunus serotina 1808
 saponins, antifeedants 10990
- Malacosoma dissitia**
 biochemistry 3106
 diets 10954
 ecology, population dynamics, models 5049
 forest trees, Canada 7063
Nyssa aquatica 5049
 parasitoids 5049
 pathogens 3106, 4109, 5971
 physiology, nutrition 10954
- Malacosoma dissitia** cont.
Populus tremuloides, Ontario 5971
 tannins, effects 10954
- Malacosoma neustria**
 control, insecticides 2690
 fruits, German Democratic Republic 2690
 insecticides, toxicity 3131
 parasitoids 2982
Quercus, Romania 2982
Yponomeuta cagnagellus, interactions 3999
- Malacosoma neustria testacea**
 China 5165
 control, insecticides 5165
 pathogens 5117
- Maladera matrida**
 biology 2691
 control, insecticides 3909
 food plants, Israel 2691
 insecticides, pathogenicity 1764
 sweet potatoes, Israel 3909
- Malaoxon** (diethyl [(dimethoxyphosphoryl)thio]butanedioate)
 detection 9348
 residues, water 9348
- Malata delphiniae**
 biology 630
 crops, Mexico 630
 natural enemies 630
- Malathion** (diethyl [(dimethoxyphosphorothioyl)thio]butanedioate)
 adsorption, soil 986
 bioavailability, rats 7107
 control
 Acrididae 9627
 Adosomus 3627
 Agrilus ruficollis 3761
 Amrasca biguttula 9756
 Amrasca devastans 3840
 Anthonomus rubi 8558
 Aphis gossypii 1599
 Aspidiotus destructor 10666
 Atherigona 414
 aubergines, insect pests 11758-11759
 Bactrocera tryoni 7757
 Bagrada hilaris 5795
 Bruchus pisorum 3877
 Carpomyia vesuviana 8637
 Ceratitis capitata 578
 Chilo partellus 3721
 Cicadellidae 2887
 Curculio nucum 3773
 Cydia pomonella 545
 Diptera 9753, 10758
 Empoasca kraemeri 9784
 greenhouse crops, insect pests 5162
 Hypera postica 476
 insects 10352
 Leptocoris oratorius 11574
 Lipaphis erysimi 2807, 6854, 11701
 Liriomyza 623
 Listronotus texanus 2861
 Malacosoma neustria 5165
 Melanaspis glomerata 2593
 Oebalus pugnax 9597
 Papilio xuthus 8035
 Paraphytomyza luteoscutellata 8806
 Plesiocoris rugicollis 511
 Plutella xylostella 9765
 Pristiphora abietina 10989
 Pyrilla perpusilla 11553
 Rhagoletis pomonella 11645
 Rhyzopertha dominica 10033, 11032
 rice, insect pests 4603
 Scirtothrips kenyanensis 9902
 stored products pests 7104
 tomatoes, insect pests 728
 Unaspis citri 10724
 Varroa jacobsoni 1245, 1325
 vegetables, Acari 1713
 degradation
 microorganisms 10140
 sea water 3198
 detection 9076
 determination 4176, 10369
 distribution, rats 957
- Malathion** cont.
 effects
 Achaea janata 7187
 Amblyseius victoriensis 8632
 Amphibia 12000
 Apis mellifera 6523
 arthropod pests 2015
 Azotus fumipennis 2593
 Cheletogenes ornatus 5749
 Corcyra cephalonica 7188
 Diaeretiella rapae 8677
 fishes 6173, 6183, 10127
 fungi 11204
 groundnuts, commodities 7996
 Oziotephusa senex 2049
 pearl millet, commodities 10022
 rats 9076
 Saccharomyces cerevisiae 7204
 tomatoes 1715
 weeds, litter, arthropods 6653
 wheat 2611
 formulations
 impurities 3193
 metabolites 7170
 metabolites, characterization 11156
 mixtures
 control
 Dialeurodes citri 9708
 Rhagoletis pomonella 11645
 vegetables, insect pests 3855
 nontarget effects, Phytoseiidae 6837
 stability 931
 toxicity
 Aphis gossypii 7761
 Ceraeochrysa cubana 10461
 Helicoverpa armigera 2854
 Noctuidae 11158
 nontarget effects
 aubergines 5864
 Cotesia glomerata 8684
 man 2028, 9073, 11185
 Rhopalomyia californica, parasitoids 4597
 persistence 10034
 environmental factors, effects 11982
 pollution, waste water 4209
 rain, effects 8087
 residues
 cauliflowers 11697
 cereal grains 7105
 cocoa 9892
 rice 11574
 sorghum 11584
 stored products 10184
 Vigna radiata 7170
 resistance
 Aphis gossypii 7761
 Aphytis melinus 2762
 Coleoptera 7108
 Cryptolestes ferrugineus 8927
 Delphacidae 7179
 Rhizoglyphus robini 11748
 Sogatella furcifera 7652
 Tribolium castaneum 11172
 solar radiation, effects 11972
 synergism 3148, 5179, 10104
 toxicity
 Acrida exaltata 186
 Aleurocanthus woglumi 4781
 Allorhogas pyralophagus 9528
 Aphis craccivora 672
 arthropods 11204
 Bemisia tabaci 6974
 beneficial insects 3497
 Callosobruchus 10034
 Channa punctatus 8120
 Chrysoperla externa 8336
 Coleoptera 3148
 Corcyra cephalonica 2014, 3165
 Cryptolaemus montrouzieri 7757
 Cucurbitaceae 8688
 Delphacidae 10104
 Dysdercus albofasciatus 6983
 Epilachna vigintioctopunctata 11971
 fishes 8123
 Helicoverpa armigera 2854, 11975
 insects 9037
 Leptocoris acuta 11178
 Liothrips karnyi 11521
 Lipaphis erysimi 5179, 6872

Malathion cont.

toxicity cont.

- maize, commodities, insect pests 11030
- mammals 7199
- man 8105
- Meloidae 3842
- Noctuidae 8089
- pearl millet, commodities 11055
- Pinnaspis aspidistae* 5749
- Plutella xylostella* 2798
- Sitophilus oryzae* 5087, 11881
- Spodoptera frugiperda* 404
- stored products pests 846
- Tribolium castaneum* 4059, 7975, 11972, 11982
- Trichogramma demoraesi* 245
- wheat, commodities 11026

Malatox (see Malathion)**Malawi**

- field crops, pests, conferences 6242
- Isoptera 5522
- Thomisidae 2358

Malaysia

- Bactrocera dorsalis* 2215
- bamboos, insects 9519
- Bessa remota*, parasitoids 2701
- Cicadellidae, natural enemies 10627
- cocoa, insect pests 1747
- Conopomorpha cramerella* 760, 5900, 8792
- Eumenotes obscura* 1767
- Helopeltis* 7884
- Helopeltis theobromae*, pathogens 761
- Hymenoptera 565, 8638
- Isoptera 831
- Lawana conspersa*, pathogens 10876
- Leptogenys* 3483
- Melastoma malabathricum*, natural enemies 328
- oil palms, pest control 7713
- pest control, information 5147
- pesticides, nontarget effects, reviews 8056
- Plutella xylostella* 11059
- Rhinotermitidae 8230
- rice
 - insect pests 2661, 3663, 8505
 - pest control 2660
- Xenocatanops humilis* 5343, 7383

Maldison (see Malathion)**Malekoccus**, taxonomy, new genus 1831**Malekoccus acaciae**

- Acacia asak*, Saudi Arabia 1831
- taxonomy, new species 1831

Malephora croceus

- pollen
 - Euseius mesembrinus* 9436
 - food, *Euseius* 11452

Mali

- Acrididae 7300
- Eurystylus marginatus* 457
- Meloidae 3720
- Schistocerca gregaria* 188

Maliarpha separatella

- parasitoids 11560
- Sierra Leone 11560

Mallada boninensis

- biology
 - behaviour 2759
 - development 6789
- Citrus*, orchards, Pakistan 2759
- cotton, fields 2909
- distribution
 - India 1338
 - Tanzania 2909
- Indian mustard, fields, India 8685
- prey
 - Aleurocanthus woglumi* 2759
 - Aphis fabae* 2909
 - Lipaphis erysimi* 8685
 - Maconellicoccus hirsutus* 6789

Mallada prasinus, Italy 3500**Mallotus paniculatus**, *Megisba strongyle*, Queensland 10949**Mallotus philippensis**, *Megisba strongyle*, Queensland 10949**Malta**

- Diplopoda 7433
- Syrphidae 11398

Malus

- Anthonomus quadrigibbus*, North America 8201
- Callisto denticulella*, Poland 3752
- Euproctis chrysorrhoea*, Italy 5970
- Paradirpha* 10690
- Rhagoletis pomonella*, resistance 9683
- trees, parasitoids, Italy 5970
- Malus baccata*, *Rhagoletis pomonella*, resistance 9683
- Malus coronaria*, *Chymomyza amoena*, USA 10711
- Malus hupehensis*, *Rhagoletis pomonella*, resistance 9683
- Malus sikkimensis*, *Rhagoletis pomonella*, resistance 9683
- Malus zumi calocarpa*, *Rhagoletis pomonella*, resistance 9683
- Malva*, *Althaea folkertsi* 3607
- Malva neglecta*, Macrosiphini, New Zealand 1398
- Malva parviflora*, orchards, *Amblyseius victoriensis*, New South Wales 8631
- Malva sylvestris*, *Phyllotreta nemorum* 2784
- Malvaceae**
 - Anthonomus grandis* 5879
 - Cynthia cardui* 323
 - extracts, effects, *Anthonomus grandis* 5879
 - Pectinophora scutigera* 6456
 - Phytoseius neomontanus*, Kenya 1833
- Mambrilla rotunda*, coconuts, India 6783
- Mamestra brassicae**
 - biology 3570
 - behaviour 80, 129, 3558, 8274
 - diapause 5781
 - environmental factors 11369
 - Brassica*, China 4819
 - cabbages 610, 11906
 - Japan 3857
 - Norway 3851
 - Switzerland 3894
 - USSR 2804, 5794, 8681-8682
 - cauliflowers, German Federal Republic 8674
 - cell lines, pathogens 11089
 - control
 - biological control 4819
 - insecticides 3857, 8681
 - microbial pesticides 5794
 - physical control 3894, 8674
 - crops, USSR 916
 - diets 5554
 - electric current, effects 2306
 - Europe 5781
 - growth regulators, effects 2200
 - Hungary 8274
 - insecticides
 - pathogenicity 610, 899
 - toxicity 5114
 - kairomones 6234
 - lucerne, Japan 1535
 - monitoring 916
 - heat sums 3851
 - traps 8274, 10749
 - parasitoids 400, 1963, 2511, 3558, 3569-3570, 6234, 11447
 - pathogens 1535, 1963, 7149, 11906, 11926
 - pheromones 5299, 6303, 8241, 8274
 - physiology
 - chemical composition 3345
 - diapause 2306
 - endocrine system 6358, 8255-8256, 9253
 - enzymes 2200
 - nutrition 80
 - reproductive organs 11324
 - rearing techniques 5554
 - sugarbeet, Japan 3895
 - vegetables, German Democratic Republic 10749
- Mamestra configurata**
 - cold resistance 2304
 - ecology, population dynamics 6439
 - insecticides, pathogenicity 1947
 - parasitoids 6867
 - pathogens 11926
 - physiology
 - development 2173

Mamestra configurata cont.

physiology cont.

- water relations 11350
- rape, Saskatchewan 6867
- Mamestra pisi**
 - France 9341
 - monitoring, traps 9341
- Mamestra suasa** (see *Lacanobia suasa*)

Mammals

insecticides

- effects 4247, 8109, 10137
- reviews 10183
- toxicity 7199

prey

- Lymantria dispar* 7944
- Panolis flammea* 8156

Mammillaria, pollen, diets, *Neoseiulus fallacis* 4497**Man**

- Alphitobius diaperinus*, allergies 7488
- fumigants, effects 974, 2022
- Hyphantria cunea*, allergies 1235

insecticides

- effects 2028, 3188, 4195, 4212, 4248, 5249, 6150, 6180, 6187, 6189-6190, 6195, 7198, 7201, 7208, 7302-7303, 8056, 8103, 8114, 8924, 8957, 9017, 9069, 9071, 9073, 9079-9081, 9137, 10137, 11185, 11188, 11989, 11994-11995, 12018
- reviews 8113
- residues 967, 2019, 3183, 3191, 4194, 8118
- safety 2040, 6184, 7162
- toxicity 2029, 8099, 8105

Leptocoris trivittatus, allergies 7053

pesticides

- effects 959-960, 1994, 3184, 4208, 8107, 8111, 9070, 10119, 10211, 11184
- protection 961
- residues 10134
- plant extracts, effects 9050
- Schistocerca gregaria*, allergies 7470
- stored products pests, allergens 8942

Mancozeb

- control, *Polyphagotarsonemus latus* 689, 7746

effects

- Chilocorus bijugus* 9682
- Drosophila melanogaster* 5190
- nuclear polyhedrosis viruses 9009
- Phytoseiulus persimilis* 8630

mixtures

- control, *Phyllocoptruta oleivora* 9720

nontarget effects

- Eutetranychus banksi* 9720
- Kampimodromus aberrans* 5715
- nontarget effects, *Kampimodromus aberrans* 5715
- toxicity, *Scirpophaga incertulas* 3714

Mandarin (Citrus reticulata)*Aleurocanthus woglumi* 2773

India 4786, 8648

Aleyrodidae, Italy 3816

Anoplophora malasiaca 1587

arthropod pests, India 6836

Ceroplastes floridensis, Egypt 571*Coccus viridis*, India 5754*Dialeurodes citri*, India 9708

insect pests, Japan 11665

orchards

parasitoids

Italy 3816

Japan 11665

Pantomorus cervinus, Florida 10720*Phyllocnistis citrella*, resistance 3809*Toxoptera aurantii* 9719

resistance 3810

Manduca

parasitoids 8762, 9851

tomatoes, California 8762, 9851

Manduca sexta*Bacillus thuringiensis*, toxicity 4120

biochemistry 4315

endocrine system 4336, 10306, 10309

biology

behaviour 10335

- Manduca sexta** *cont.*
 biology *cont.*
 development 10843
 control, insecticides 1714
 diets 2210, 7464
 food plants 10335
 genetics
 gene expression 1138, 5334, 9256
 genes 10321
 growth regulators, effects 2931, 4141, 6214, 7232, 9034
 hormone antagonists, effects 11237
 Hymenoptera, venoms, toxicity 1988
 insecticides
 effects 3102
 pathogenicity 899
Lycopersicon, resistance 11753
 morphology, muscles 7451
 natural enemies 5474
Nicotiana 757
Nicotiana glauca, damage 5898
 parasitoids 249, 7503, 8337
 toxins 10435
 pathogens 1954, 1958, 3110, 4096, 4141, 7138, 9001, 10066, 11094, 11934
 pheromones 6304, 8234
 physiology
 cells 4339
 chemical composition 2281
 cuticle 1093, 2210, 4096, 7354
 defence 7503
 development 33, 2181, 4289, 9195
 digestive system 78, 1094
 endocrine system 2172, 3325, 4335, 5334-5335, 6304, 6355-6356, 7371, 9247, 9255-9256, 11327, 11334
 enzymes 2194, 2197, 7337
 epidermis 6364
 immune response 2185, 5474
 lipid metabolism 2187
 membranes 1070, 3102
 metabolism 57, 1073
 metamorphosis 4292
 muscles 6328, 9254
 nervous system 3281, 6330, 6333, 8242, 10289, 11322
 proteins 114, 2280, 3339
 sense organs 5328
 senses 6349
 sterols 56
 water relations 1127, 2284-2285
 plant extracts
 effects 10336
 toxicity 353
 plants, extracts, effects 4151
 rearing techniques 7464
 staining 7451
 tobacco
 effects 3945
 resistance 5893
 tomatoes 10843
 Puerto Rico 1714
- Maneb** ([1,2-ethanedithiolbis[carbamodithioato]](2-)]manganese)
 nontarget effects, wheat, insects 3656
- Manganese**, pollutants, Sphingidae 1835
- Mangels** (see Mangolds)
- Mangifera indica** (see Mangoes)
- Mangoes** (*Mangifera indica*)
Aleurodicus dispersus, Papua New Guinea 3826
Amrasca splendens, India 7760
Anastrepha
 Mexico 9732
 Venezuela 5765
 arthropod pests
 Australia 4231
 biology 4231
 control 3827, 4231
 Queensland 3827
Ceratitis, Mauritius 9727
Chloropulvinaria polygonata, India 11678
 Cicadellidae 9733
 Coccoidea, India 5766
 commodities
 Anastrepha 11891
 Anastrepha suspensa, Florida 3079
- Mangoes** *cont.*
 commodities *cont.*
 arthropod pests, Australia 4231
 Diptera, detection 4080
 Drosophila melanogaster 3077
 fumigants, residues 11047
 radiation, effects 7114
 Tephritidae 11892
Deporaus marginatus 11674
Drosicha mangiferae 10743
 India 4801, 5768, 7759, 10744, 11679
Hypatima mangiferae, Kenya 5767
Idioscopus
 India 6851
 Philippines 2780
Idioscopus clypealis, India 11675, 11677
 insect pests 4800
 Bangladesh 1594
 Cuba 5548
 India 9731, 11680
 Pakistan 5769
 insecticides, residues 585, 5766, 5769, 11676
 orchards
 beneficial insects, India 11680
 Tetrastichus, India 11677
Pseudotheraptus wayi, damage 10714
Rastrococcus, India 10658
Rastrococcus invadens, Togo 6777
Rhynchaenus mangiferae, India 584
Sternonchetus mangiferae 6460
 Tephritidae, America 3080
 wood, Termitidae, damage 11043
- Mangolds** (*Beta vulgaris*)
 Aphididae 5770
- Mangroves**, Cerambycidae, Belize 1401
- Manica rubida**
 biochemistry
 cuticle 10405
 glands 10408-10409
 biology, behaviour 10404, 10409
 Formica selysi, interactions 10405
 Myrmica rubra, interactions 10404
 physiology, pheromones 1234
- Manihot esculenta** (see Cassava)
- Manilkara achras** (see Sapodillas)
- Manilkara hexandra**, arthropod pests, India 1883
- Maniola jurtina**
 ecology 6392
 UK 6392, 9530
- Mantidae**
 physiology
 chemical composition 1124
 sense organs 2249
 predators 3258
 prey, *Heteropsylla cubana* 7031
- Mantis religiosa**
 biology, behaviour 9313
 physiology, nervous system 10290
 predators 3505
 prey, *Spathosternum prasiniferum* 3505
- Mantodea**
 Argentina 11246
 biology 11246
 morphology 11246
 Nepal 4412
 taxonomy 4412
- Manures**
 effects, arthropods, reviews 6445
Janetiella pyriformis, Switzerland 4531
- Maoraxia**, taxonomy 2139
- Maoraxiina**, taxonomy 2139
- Maple** (see *Acer*)
- Maps**
 arthropod pests 6454-6455, 6457-6459
 insect pests 6456, 6460
- Marasimia patnalis**
 biology, development 10619
 food plants, food preferences 11580
 physiology, nutrition 11580
 rice 10619
 Malaysia 3663
 Philippines 10616
- Marasimia trapezalis**, sorghum, India 7659
- Margarodidae**
 distribution, Pacific Islands 7273
 taxonomy 7273
- Margaronia hyalinata** (see *Diaphania hyalinata*)
- Mariana Islands**
Bactrocera cucurbitae 11359
Eupatorium odoratum, natural enemies 5559
- Marine areas**
 insecticides, residues 4204
 pollutants, New Zealand 4213
- Maritime pine** (see *Pinus pinaster*)
- Markei**, seeds, *Camponotus femoratus*, Peru 10402
- Markets**, Formicidae, Denmark 1233
- Marpissa calcutaensis**
 biology, nutrition 8349
 India 8349
 predators 8349
- Marsdenia coronata**, *Euploea core*, Queensland 9503
- Marsdenia glandulifera**, *Euploea core*, Queensland 9503
- Marsdenia microlepis**, *Euploea core*, Queensland 9503
- Marsdenia rostrata**, *Euploea core*, Queensland 9503
- Marsdenia viridiflora**, *Euploea core*, Queensland 9503
- Marshal** (see Carbosulfan)
- Marshes**, Heteroceridae, Italy 5567
- Marsipococcus marsupiale**
 biology 3637
 control 3637, 9508
Piper nigrum, India 3637, 9508
- Martinique**
 carrots, pest control 1678
Thrips palmi 3838, 10751
- Martynia louisianica**, attractants, *Eucelatoria bryani* 7873
- Maruca testulalis**
 biology 9781
 phenology 6885
Cajanus cajan, India 5816
 control 2831
 insecticides 9795
 legumes 9781
 pathogens 6745
Phaseolus vulgaris, Brazil 9785
 sorghum, Kenya 6745
Vigna, resistance 6886
Vigna radiata
 India 2831
 Sri Lanka 6888
Vigna unguiculata
 Benin 6885, 9795
 Nigeria 651
 resistance 11717
- Masariidae**, Chile 4402
- Mascarene Islands**, field crops, arthropod pests 1011
- Maschwitzia**, taxonomy, new genus 4450
- Maschwitzia ulrichi**
Leptogenys, interactions 4450
 taxonomy, new species 4450
- Mastotermes darwiniensis**
 Australia 10482
 biology 4547
 physiology, digestion 4285
Pseudodiplogasteroides, interactions 10482
- Mastrus aciculatus**
 forests, Oregon 9976
 hosts, *Rhyacionia zozana* 9976
- Matacil** (see Aminocarb)
- Matacil 180D** (see Aminocarb)
- Matador** (see α -Cyanocyclopropane carboxylate)
- Mating disruption**
Aonidiella aurantii 5172
Cydia funebrana 2749
Cydia molesta 9697
Ephestia cautella 7988
Epichoristodes acerbella 2944
Eucosma sonomana 10928
Eupoecilia ambiguella 6797
Helicoverpa armigera 3941
Keiferia lycopersicella 726, 1712
 Lepidoptera 5909
Lobesia botrana 522, 2715
Lymantria dispar 793, 10952
 Noctuidae 914
Ostrinia furnacalis 3673

Mating disruption cont.

- Pectinophora gossypiella* 6976
Plutella xylostella 9767
Rhyacionia buoliana 5934
Rhyacionia zozana, effects, parasitoids 9976
Spodoptera exigua 9843, 10839
Matricaria chamomilla (see *Chamomilla recutita*)
Matsucoccus josephi
Pinus, Israel 10916
Pinus halepensis
 damage 10917
 Israel 1182, 1805
 predators 1182
Matsucoccus resinosa
 biology 9971
Pinus, Connecticut 9971
Matsumuraes falcana (see *M. phaseoli*)
Matsumuraes phaseoli
 monitoring, traps 10804
 soybeans, Japan 10804
Matsumuratettix hiroglyphicus
 biology 8453
 plant pathogens, transmission 8453
 sugarcane, Thailand 8453
Mattesia, hosts, *Eudonia sabulosella* 3733
Mauritania, *Aleurocybotus indicus* 442
Mauritius
Aphididae 10226
Drosophila 3438
Phyllophaga smithi 6460
Scaptomyza mateolata 11703
 sugarcane
 arthropod pests, reports 364
 research, reports 11278
Tephritidae 9727
Mayetiola destructor
 biology
 behaviour 7588
 development 4279
 environmental effects 7592
 phenology 10563
 biotypes 9539
 cereals, Georgia 9531
 control, cultural control 4614, 10564
 distribution, maps 6459
 genetics
 chromosomes 3352
 cytogenetics 3351
 Gramineae, Kansas 7588
 morphology, larvae 4279
 physiology, enzymes 376
 resistance, biotypes 10565
Triticum, resistance 7595
 wheat 376
 damage 11535
 Georgia 2615, 10564
 resistance 1435, 4618, 7591-7592, 9537, 9539
 Romania 4614
 Texas 10565
 USA 10563
Mayridiina, taxonomy 2124
MCPA
 nontarget effects
 predatory arthropods 6526
Pterostichus 9444
MCPP, nontarget effects, predatory arthropods 6526
Meadows
Araneae, Switzerland 1516
 arthropods, German Federal Republic 468, 4681
Autographa gamma, Japan 7680
Chorthippus parallelus, Europe 3734
 habitats, Staphylinidae, Switzerland 4379
 invertebrates, Switzerland 463
 predatory insects, German Federal Republic 2597
Mealybugs (see *Pseudococcidae*)
Meat, insecticides, residues 1891, 6484
Mecoptera
 checklists, Nicaragua 5235
 morphology, wings 4284
Mecysolobinae
 Japan 4277
 morphology 4277
Medetera pinicola, *Pinus sylvestris*, wood, UK 3071

Medetera striata

- ecology, population dynamics 9938
 Israel 9938
 prey, insects 9938
Medicagenic acid, antifeedants, *Tenebrio molitor* 4700
Medicago
Aphididae, damage 3736
Bruchophagus roddi 4695
Medicago lupulina, *Anticarsia gemmatilis* 4591
Medicago sativa (see *Lucerne*)
Medicinal plants
 commodities, insecticides, residues 4053
 India, reports 7293
 pest control 9510
 pesticides, residues, conferences 9124
Mediterranean countries
Acrotylus 5259
Dryinidae 11450
Lysiphlebus testaceipes 4492
 pesticides, information 4227
 plants, pollinators 6993
 soils, invertebrates 5382
Medocostes lestoni, trees, habitats, Zaire 4541
Medythia quaterna
 distribution, maps 6456
 food plants, Africa 6456
Meetings (see *Conferences*)
Megacephala fulgida
 prey, *Scapteriscus* 2446
 South America 2446
Megacephala fulgida fulgida
 monitoring, traps 2491
 prey, *Scapteriscus* 2491
 South America 2491
Megachile, collections 9140
Megachile rotundata
 biology 5690
 lucerne
 fields, Chile 5690
 pollination 480, 8539
 Yugoslavia 8539
 parasitoids 3555, 5690, 8539, 9445
 pathogens 480
 Washington 480
Megacyllene robiniae
 biochemistry, glands 2206
 ecology, distribution 9959
 pathogens 1853
Robinia pseudoacacia, Maryland 9959
Megalonotus chiragrus sabulicolus
Centaurea maculosa 4589
 distribution, North America 4589
Megalonotus sabulicolus (see *M. chiragrus sabulicolus*)
Megaloptera
 Australia, catalogues 12031
 checklists, Nicaragua 5235
 ecology 12031
 taxonomy 3255, 12031
Megalotomus
 biology, phenology 3656
 fungicides, effects 3656
 morphology 8202
 taxonomy 8202
 wheat, Brazil 3656
Megalotomus pallenscens, soybeans, Paraguay 3880
Megalurothrips sjostedti
 biology, phenology 6885
Vigna unguiculata
 Benin 6885
 Senegal 3684
Megalurothrips usitatus
 beans, Taiwan 3874
 biology 3874
 environmental factors 10785
 phenology 1633
 legumes, Taiwan 1633
 monitoring 1633
Meganola spodia
 biology 11795
 morphology 11795
Quercus prinus, West Virginia 11795
Megaphragma mymaripenne
 avocados, orchards, California 3806
 biology 3806
Megaponera foetans
 Kenya 5514

Megaponera foetans cont.

- prey, *Macrotermes michaelsoni* 5514
Megarrhamphini
 morphology, genitalia 2649
 taxonomy, new taxa 2649
Megarrhamphus bengalensis
 rice, Bangladesh 2649
 taxonomy, new species 2649
Megascolia flavifrons, venoms, biochemistry 10433
Megaselia
 British Isles, books 7263
 morphology 7263
 taxonomy, keys 7263
Megaselia halterata
 mushrooms 7765
 pathogens 7765
Megaselia pulicaria complex, taxonomy 7263
Megaselia pygmaea, taxonomy 4257
Megaselia sandhui
 control 9753
 mushrooms 9753
Megaselia scalaris
 hosts, *Amsacta albistriga* 2846
 insecticides, effects 2846
Megastigmus, biology, diapause 5995
Megastigmus albifrons
Pinus ponderosa
 Arizona 11823
 USA 5991
Megastigmus floridanus
 biology 7074
Ilex attenuata, Florida 7074
Ilex opaca, Maryland 4969, 7074
Megastigmus spermotrophus
 control, insecticides 2999, 5998, 6007
Pseudotsuga menziesii
 British Columbia 5998, 6003
 California 2999, 6007
 Oregon 4021, 5994
 sampling 6003
Megastigmus strobilobius
 biology, environmental factors 5992
Picea, Poland 9997
Picea abies, France 5992
Megastigmus suspectus pinsapinis
Cedrus atlantica, France 6005
 ecology, population dynamics 6005
Megastigmus transvaalensis
 distribution, Florida 11800
Schinus terebinthifolius 11800
Megatrioza, taxonomy 2698
Megatrioza kauaiensis
Pritchardia, Hawaii 2698
 taxonomy, new species 2698
Megatrioza mauensis
Pritchardia, Hawaii 2698
 taxonomy, new species 2698
Megatrioza molokaiensis
Pritchardia, Hawaii 2698
 taxonomy, new species 2698
Megatrioza palmicola, *Pritchardia*, Hawaii 2698
Megisba strongyle nigra
Mallotus, Queensland 10949
 morphology 10949
Megoura crassicauda
 predators 2679
Vicia sativa, Japan 2679
Megoura viciae
 bacteria, interactions 5395
 biology, reproduction 9174
 morphology, reproductive organs 3256-3257
 physiology
 development 6354
 starvation 9212
 symbionts, isolation 5395
Vicia faba 6354
Meioneta rurestris
 fields, Netherlands 6526
 monitoring, traps 6526
 pesticides, effects 6526
Melanagromyza amaranthi
Amaranthus dubius, Venezuela 6648
 taxonomy, new species 6648
Melanagromyza hibisci
 okras, India 6862
 parasitoids 6862

- Melanagromyza obtusa**
biology, phenology 7806
Cajanus cajan
India 659, 3887, 4865, 5816, 5825, 5827-5828, 5830, 6902, 7806, 10807
Taiwan 2845
control, insecticides 3887, 4865, 5825, 5830, 7806, 11719
legumes, India 2813
monitoring, traps 5827
parasitoids 2813
Vigna unguiculata, India 11719
- Melanagromyza sojae**
control
cultural control 4854
insecticides 9808
plant density, effects 4863
row spacing, effects 11723
soybeans
India 4854, 4863, 9808, 11723, 11730
Taiwan 5822
Vigna mungo, India 8699
- Melanaphis**
grasses, India 3648
parasitoids 3648
- Melanaphis meghalayensis meghalayensis**
bamboos, India 3648
parasitoids 3648
- Melanaphis sacchari**
biology, phenology 4676
monitoring, traps 4676
predators 1290
sorghum
resistance 1503
Venezuela 4676
- Melanargia galathea meadewaldoi**, morphology 5276
- Melanaspis glomerata**
control
biological control 7584
insecticides 2593
Erianthus munja 2469
parasitoids 2593
predators 2469
sugarcane, India 1424, 2593, 7584
- Melanaspis obscura**
biology, phenology 5974
parasitoids 5974
monitoring, traps 5974
Quercus palustris, USA 5974
- Melandryidae**
conifers, Ontario 8862
monitoring, traps 8862
- Melanips austriaca**
Finland 5053
hosts, *Strobilomyia* 5053
- Melanitis leda ismene**
pathogens 5647
rice 5647
- Melanophila**
anatomy 1821
distribution 1821
forest trees 1821
taxonomy 1821
- Melanoplinae**
biology, environmental factors 10642
grasslands, Arizona 10642
physiology, sense organs 6346
- Melanoplus**
biology, food preferences 10644
control, insecticides 9627
grasses, South Carolina 10644
grasslands, South Dakota 9627
pathogens 1220
- Melanoplus bivittatus**
grasses, Alberta 1221
insecticides, toxicity 9064
pathogens 1221
- Melanoplus differentialis**
Kansas 11948
pathogens 11912-11913, 11948
physiology
endocrine system 7371
haemolymph 2232
- Melanoplus femurrubrum**, biology, development 5356
- Melanoplus packardii**
grasses, Alberta 1221
pathogens 1221
- Melanoplus sanguinipes**
biochemistry, reproductive organs 11417
biology
diapause 7327-7328
environmental factors 9614
control, insecticides 9627
ecology, population dynamics 10210
food plants 4440
genetics, genes, enzymes 4438
grasses, Alberta 1221
grasslands
Montana 9614
Saskatchewan 4438
South Dakota 9627
insecticides, toxicity 4440
Melanoplus spretus, differentiation 6508
morphology, accessory glands 4439
pathogens 1221, 3466, 11078
physiology
endocrine system 5419
haemolymph 2232
reproductive organs 3322
secretions 1110
plant pathogens 2683
secondary metabolites, metabolism 5286
USA 6508
viruses, effects, *Apis mellifera* 11078
- Melanoplus spretus**
Melanoplus sanguinipes, differentiation 6508
USA 6508
- Melanospora parasitica**, hosts, entomogenous fungi 11083
- Melanoxylon braunea**, Sennius, Brazil 3083
- Melaphis rhois**
America 10522
biology 10522
evolution 10522
food plants 10522
Rhus glabra, galls 10522
- Melasoma vigintipunctata** (see *Chrysomela vigintipunctata*)
- Melastoma malabathricum**, *Altica cyanea*, Malaysia 328
- Melastomataceae**, *Phaenochitoniasagaris*, Brazil 4004
- Meleoma dolichartha**, parasitoids 2471
- Melhanian velutina**, *Phytoseius neohongkongensis*, Kenya 1833
- Melia azedarach**
extracts
antifeedants, *Spodoptera littoralis* 3149
control, insect pests 352
effects, *Isoptera* 1794
toxicity, *Corcyra cephalonica* 2014
oils, control, mites 6830
wood, *Isoptera*, damage 1794
- Melia toosendan**, extracts, control, insect pests 352
- Meliaceae**, extracts, insecticidal properties 4228
- Meligethes aeneus**
biology 1615, 3847
development 4821
reproduction 3848
Brassica, Switzerland 9762
control 5786
insecticides 4822, 6865, 8071
crops, Finland 9486
Cruciferae, Poland 8672
ecology, population dynamics 3849, 9762
food plants, Finland 5786
insecticides, toxicity 6868
monitoring 3847
parasitoids 2801, 3849, 8672
predators 9486
rape
Europe 8071
Poland 4822, 6868
Sweden 1615, 2801, 3847, 3849, 4821
Switzerland 3848
UK 10766
USSR 6865
sampling 4420
- Meligethes aeneus cont.**
Umbelliferae, Poland 10820
- Melilotus alba**, *Anticarsia gemmatalis* 11683
- Melilotus alba**
Anticarsia gemmatalis 4591
Cicadellidae, Argentina 6764
Colias philodice 6767
cover crops, effects, predatory insects 8593
Spilosoma obliqua, India 1647
- Melilotus indica**, *Spilosoma obliqua*, India 1647
- Melilotus parviflora** (see *M. indica*)
- Melissococcus**, *Varroa*, interactions 1328
- Melittobia assemi**
hosts, *Chalybion bengalense* 10457
India 10457
- Mellein**, mixtures, pheromones, *Cydia molesta* 7734
- Mellinus arvensis**, urban areas, Poland 2441
- Meloe**
phylogeny 6248
taxonomy 6252
- Meloe majalis**, taxonomy, to *Berberomeloe* 6531
- Meloe rugosus group**, taxonomy 6252
- Meloidae**
Albania 259
biology, phenology 3720
food plants 3720
hosts, *Apis mellifera* 259
monitoring, traps 3720
plant pathogens, transmission 8006
West Africa 3720
- Meloidogyne**
biological control agents, evaluation 6108
predators 1318, 8025
- Meloidogyne hapla**, biological control agents, evaluation 6108
- Meloidogyne incognita**, biological control agents, evaluation 6108
- Meloidogyne javanica**, biological control agents, evaluation 6108
- Melolontha hippocastani**, physiology, lipids 9265
- Melolontha melolontha**
control
integrated control 3640
microbial pesticides 6111
hops, Romania 3640
microscopy 6487
physiology, lipids 9265
strawberries, Switzerland 5702
- Melolonthinae**, field crops, India 320
- Melons (Cucumis melo)**
Anasa tristis 11702
Oklahoma 10781
Aphididae, resistance 8690
Aphis gossypii
Japan 7761
resistance 7787
Bactrocera cucurbitae 2295
Pakistan 5760
Bemisia tabaci 5797
Arizona 7764
fields, predatory arthropods, Iraq 4836
fumigants, effects 4082
Homoptera, California 11708
insecticides, residues 11705
Liriomyza bryoniae, Japan 4839
pest control 8689
Australia 9132
Tetranychus cinnabarinus, resistance 11707
Thrips palmi 9728
Japan 6878
- Melophorus bagoti**, insects as food, Australia 1356
- Melosoma populi** (see *Chrysomela populi*)
- Membracidae**
bibliographies 7250
biology 7250
forests, Venezuela 10
morphology 7250
natural enemies 7250
taxonomy 10, 7250
- Membracoidae**
bibliographies 7250

- Membracoidea** *cont.*
 biology 7250
 databases 8192
 morphology 7250
 natural enemies 7250
 taxonomy 7250
- Membranes**, insecticides, effects 2051
- Mendozellus dubius** (see *Amplicecephalus dubius*)
- Mendozellus isis** (see *Amplicecephalus isis*)
- Menemerus bivittatus**
 Cape Verde 11386
 morphology 11386
- Mengenillidia**, morphology 4473
- Menida**, rice, Bhutan 7642
- Menida histrio**, distribution, India 1478
- Menochilus sexmaculatus** (see *Cheilomenes sexmaculata*)
- Mentha**
Aphis, Portugal 9511
 arthropod pests
 biology 6233
 control 6233
 damage 6233
 natural enemies 6233
 insecticides, residues 1407
 oils, control, *Callosobruchus chinensis* 11058
- Mentha arvensis**, extracts, insecticidal properties 9041
- Mentha asiatica**, insects, USSR 2927
- Mentha citrata** (see *M. piperita* var. *citrata*)
- Mentha longifolia** subsp. *himalaiensis*, extracts, toxicity, *Sitophilus oryzae* 6675
- Mentha piperita**
 habitats, *Meteorus communis*, Oregon 9634
 Noctuidae, Oregon 9634
Spodoptera eridania 6671
- Mentha piperita** var. *citrata*, oils, effects, *Sitophilus oryzae* 5097
- Menthol**
 control, *Acarapis woodi* 1272, 1274, 7498
 residues, honey 7498
- Meotiorhynchus**, morphology 1044
- MEP** (see Fenitrothion)
- Mephosfolan** (diethyl (4-methyl-1,3-dithiolan-2-ylidene)phosphoramidate)
 control
Euprosteria elaeisa 1543
 jute, arthropod pests 2928
Leptopharsa gibbicarina 1543
 Noctuidae 5813
 onions, insect pests 9845
 potatoes, arthropod pests 1683
Stenoma impressella 1543
 degradation, soil 6205
- Meranoplus**, biology, behaviour 2423
- Mercurialis annua**, *Trichogramma platneri*, food preferences 10719
- Mercuric chloride**, effects, *Acrotylus patruelis* 2329
- Mercury**
 control, stored products pests 11034
 effects, *Acrotylus patruelis* 3197
 residues, wheat, commodities 11034
- Merisus splendidus**
Dactylis glomerata, habitats, UK 9620
 hosts, *Glyptopterix simpliciella* 9620
- Mermis**, hosts, *Tessaratomia papillosa* 3101
- Mermithidae**
 hosts
 Acrididae 4149
Helicoverpa armigera 11590
 Lepidoptera 6745
- Merobruchus**
 food plants, America 3249
 taxonomy 3249
- Mesaphorura macrochaeta**
 ecology 4987
 forests, Spain 4987
- Mesobracon psolopterus**, taxonomy, to *Mesobraconoides* 11560
- Mesobracon truncatus**, taxonomy, to *Mesobraconoides* 11560
- Mesobraconoides**, taxonomy, new genus 11560
- Mesobraconoides psolopterus**
 hosts, *Maliarpha separatella* 11560
 Sierra Leone 11560
 taxonomy, from *Mesobracon* 11560
- Mesobraconoides truncatus**, taxonomy, from *Mesobracon* 11560
- Mesochorus**
Castanopsis chrysophylla, forests, Oregon 3998
 Citrus, orchards, India 11660
 hosts
Phryganidia californica 3998
Psorosticha zizyphi 11660
- Mesochorus discitergus**
 biology 6572
 behaviour 5819
 hosts
 Braconidae 5819
Cotesia marginiventris 6572
Plathypena scabra, interactions 6572
 soyabeans, fields, Kentucky 5819
- Mesodiplogaster**, hosts, *Hepialus gracilis* 7023
- Mesohomotoma tessmanni**
 cocoa, Ghana 10875
 sampling 10875
- Mesopolobus fuscipes**
 ecology, population dynamics 11805
 hosts, Cynipidae 11805
Quercus, forests, UK 11805
- Mesopolobus tibialis**
 ecology, population dynamics 11805
 hosts, Cynipidae 11805
Quercus, forests, UK 11805
- Mesopolobus xanthocerus**
 ecology, population dynamics 11805
 hosts, Cynipidae 11805
Quercus, forests, UK 11805
- Mesoranil** (see Aziprotryne)
- Mesostenus**
 Australia 6560
 India 6560
 taxonomy 6560
- Mesostigmata**
 biology 5029
 ecology, population dynamics 1349
 evolution 4349
 genetics 4349
 grasslands, Colorado 8533
 insects, interactions 2094
Nothofagus pumilio, forests, Chile 5029
 pesticides, effects 1731
 predators 4544
 prey, Nematoda 10639
 soil
 Colorado 10639
 Egypt 1731
 New Mexico 9323
 USSR, books 2094
- Messa hortulana**
 distribution, Poland 4038
 forest trees 4038
- Messor pergandei**, biology, behaviour 9382
- Metabenzthiazuron**, nontarget effects, *Pterostichus* 9444
- Metabolus flavescens**
 biology 1873, 2973
 control, insecticides 2973
 monitoring, traps 2973
 nurseries, China 1873
 trees, China 2973
- Metaceronema japonica**
 biology 8652
 control
 insecticides 8652
 microbial pesticides 7951
 forest trees, China 7951
 olives, India 8652
 predators 8652
- Metacharis ptolomaeus**
Lacistema, Brazil 4004
 morphology, larvae 4004
- Metachroma**
 control, insecticides 1524
Salicornia, Mexico 1524
- Metachroma regulare**
 control, insecticides 1524
Salicornia, Mexico 1524
- Metacide** (see Parathion-methyl)
- Metacil** (see Aminocarb)
- Metaculis oleariae**, taxonomy, to *Zelotemma* 5491
- Metaculus unifasciatus**
 ecology, population dynamics 9938
 hosts, Scolytidae 9938
 Israel 9938
- Metalaxyl**, nontarget effects, *Kampimodromus aberrans* 5715
- Metaldehyde**
 control
Achatina fulica 11499
Deroceras laeve 6622
Deroceras reticulatum 505
Pomacea lineata 453
Sarasinula plebeia 640
 slugs 371, 705
 effects
Deroceras caruanae 316
Deroceras reticulatum 314, 318, 951-952, 5539
 Gastropoda 950
 nontarget effects
 Carabidae 277
 invertebrates 371
Lumbricus terrestris 975
 meadows, invertebrates 463
- Metals**
 chelates, control, *Deroceras reticulatum* 954
 detoxification, arthropods 10376
 effects, invertebrates, books 4229
- Metapelmatinae**, taxonomy 6255
- Metapenaeus monoceros**, insecticides, effects 3176
- Metaphidippus aeneolus**
 Oregon 3988
 prey, *Orgyia pseudotsugata* 3988
- Metaphycus bartletti**, hosts, *Saissetia coffeae* 3805
- Metaphycus flavus**
 biology, phenology 1589
 hosts
Saissetia coffeae 3805
Saissetia oleae 1589
 olives, orchards, Cyprus 1589
- Metaphycus lounsburyi**
 biology, phenology 1589
 hosts
Saissetia coffeae 3805
Saissetia oleae 1589
 olives, orchards, Cyprus 1589
- Metaphycus orientalis**
 control, *Coccus pseudomagnoliarum*, evaluation 2756
 Japan 2756
- Metaphycus punctipes**
 habitats, Poland 5068
 hosts, *Pulvinaria betulae* 5068
- Metaplatyphytoptus**, taxonomy, new genus 5948
- Metaplatyphytoptus amoni**
Amomum villosum, China 5948
 taxonomy, new species 5948
- Metapodistis polychrysa**, cardamoms, India 11522
- Metarbelidae**
 Saudi Arabia 144
 taxonomy 144
- Metarhizium**, hosts, insects 7126
- Metarhizium anisopliae**
 alkanes, utilization 1961
 biochemistry, enzymes 8032
 biology, growth 11082
 control
Aeneolamia varia 6694
Antitrogus parvulus 6688
Deois flavopicta 4690
 forest pests 1870
Hoplochelus marginalis 3645
 culture techniques 4239, 4795, 11925
 destruxin A 10051
 destruxins, isolation 8008
 detection 11945
 differentiation 3111
 effects, Aphididae 7246
 enzymes 1954, 1958, 3110
 fungicides
 resistance 9001
 tolerance 10066
 genetics
 DNA 6072

- Metarhizium anisopliae** *cont.*
 genetics *cont.*
 gene transfer 10066
 genes 6073
 germination 7138, 8986-8987
 hosts
 Atta sexdens 7480
 Conotrachelus 4949
 Cosmopolites sordidus 4795
 Empoasca 3886
 Empoasca fabae 5137
 insects 4099, 9730
 Lawana conspersa 10876
 Manduca sexta 1954, 1958, 3110, 4096, 4141, 7138, 9001, 10066
 Nilaparvata lugens 6083
 Plutella xylostella 10057
 Scapteriscus 1519
 Scapteriscus tenuis 4373
 Schistocerca gregaria 4446
 Teleogryllus commodus 6760
 pathogenicity, assays 4099
 pest control 3105
 pesticides, interactions 6113
 properties 4096
 soil, Finland 6099
 storage 8982
 testing 11100
 toxicity
 Galleria mellonella 10060
 Lepidoptera, cell lines 10060
 toxins 3105
 structure 8016
 transformation, genetic engineering 9001
- Metarhizium anisopliae** *var. anisopliae*
 control, *Brontispa longissima* 5696
 hosts
 Ceratitis capitata 5105
 Helicoverpa armigera 10848
 Laodelphax striatella 9591, 11904
 insecticides, effects 9591
 testing 11100
- Metarhizium anisopliae** *var. majus*, testing 11100
- Metarhizium cylindrospora**, hosts,
Graptosaltria nigrofusca 9948
- Metaseiulus occidentalis**
 acaricides, resistance 2510
 apples
 orchards
 China 7735
 Oregon 9685
 biology, reproduction 2693
 control
 Panonychus ulmi 537
 Tetranychidae 7735
 dust, effects 9791
 ecology 9685
 insecticides, resistance 2693
 orchards, USSR 537
 pathogens 4543
 pears, orchards, California 2693
 prey
 Tetranychus cinnabarinus 1742
 Tetranychus pacificus 9791
 USA 2693
- Metasyrphus confrater** (see *Eupeodes confrater*)
- Metasyrphus corollae** (see *Eupeodes corollae*)
- Metasyrphus frequens** (see *Eupeodes nitens*)
- Metasyrphus latilunulatus** (see *Eupeodes latilunulatus*)
- Metasystox** (see *Demeton-S-methyl*)
- Metasystox R** (see *Oxydemeton-methyl*)
- Metatetranychus ulmi** (see *Panonychus ulmi*)
- Metatydæolus longistriatus**
Chamomilla recutita, Egypt 2788
 taxonomy, new species 2788
- Meteorology**
 insect pests, migration, books 7284
 plant protection, reports 5244
- Meteorus**
 apples, orchards, India 11639
 hosts, *Agalope hyalina* 11639
- Meteorus autographæ**
 hosts, Noctuidae 9807
 soyabeans, fields, Louisiana 9807
- Meteorus communis**
 habitats, Oregon 9634
 hosts, Noctuidae 9634
- Meteorus leviventris**
 biology, behaviour 2122
 hosts, *Agrotis ipsilon* 2122
- Meteorus trachynotus**
 biology 9416
 phenology 8840
 forests, Quebec 8840
 hosts
 Choristoneura 8840
 Choristoneura fumiferana 9416
 monitoring, traps 8840
 morphology, larvae 9416
 Quebec 9416
- Metepeira**
 biology, behaviour 4357
 predators 4357
- Metepeira atascadero**
 ecology, foraging 2443
 Mexico 2443
- Metepeira incrassata**
 ecology, foraging 2443
 Mexico 2443
- Metepeira spinipes**
 ecology, foraging 2443
 Mexico 2443
- Metha** (see *Fenugreek*)
- Methacrifos** ((*E*)-methyl 3-[(dimethoxy-phosphinothioyl)oxy]-2-methyl-2-propenoate)
 residues, food 1023
 toxicity
 stored products pests 5092-5093
 Tribolium castaneum 5091
- Methallyl chloride**
 control, *Bruchus pisorum* 7090
 mixtures, control, *Bruchus pisorum* 7090
- Metham**, toxicity, *Heterorhabditis bacteriophora* 8981
- Methamidophos** (*O,S*-dimethyl phosphoramidothioate)
 control
 Aculops lycopersici 6942
 Aphididae 6924, 9833
 Bemisia tabaci 7879
 Cajanus cajan, insect pests 5825
 Chaetocnema 7910
 Cydia pomonella 8583
 Empoasca kraemeri 9784
 Frankliniella occidentalis 7007
 fruits, arthropod pests 2690
 Hieroglyphus banian 3713
 Liriomyza 623
 Nasonovia ribisnigri 597
 Nilaparvata lugens 3163
 Oxya chinensis 3685
 Phaseolus vulgaris, insect pests 8697
 Phyllocnistis citrella 5753
 Plutella xylostella 3852
 Stenchaetothrips biformis 3698
 Tetranychus macfarlanei 2794
 Thysanogyna limbata 5028
 tomatoes, insect pests 1714
 Tortricidae 536
 wheat, insect pests 388
- effects
 Apis mellifera 2533
 Copidosoma koehleri 2868
 Nilaparvata lugens 6167
 herbicides, compatibility 1462
 mixtures, control, *Liriomyza* 623
 nontarget effects
 Apis mellifera 6769
 beneficial arthropods 3163
- resistance
 Spodoptera littoralis 3935
 Tetranychus urticae 935
- toxicity
 beneficial insects 3497
 determination 7176
 Lipaphis erysimi 5179
 Liriomyza trifolii 633
 Macrocentrus linearis 7511
 Myzus 6920
 Tephritidae 11980
- Methia rhizophoræ**
 mangroves, Belize 1401
- Methia rhizophoræ** *cont.*
 taxonomy, new species 1401
- Methidathion** (*S*-[(5-methoxy-2-oxo-1,3,4-thiadiazol-3(2*H*)-yl)methyl] *O,O*-dimethyl phosphorodithioate)
 control
 Anoplophora malasiaca 5748
 apples, arthropod pests 2742
 Bruchophagus fells 7755
 grapes, Hemiptera 1552
 Hemiberlesia pitysophila 3978
 Parlatoria zizyphi 7749
 Planococcus citri 7747
 degradation, bacteria 11217
 effects
 fishes 11201
 Thrips palmi 9728
 mixtures, effects, fishes 11201
 nontarget effects
 fishes 2031
 Trioxys pallidus 11634
 residues
 fog 10149
 tea 770
 resistance
 Aphytis melinus 2762
 Phorodon humuli 2579
 Phytoseiulus persimilis 11217
 synergism 11201
 toxicity, *Liriomyza trifolii* 633
- Methiocarb** (3,5-dimethyl-4-(methylthio) phenyl methylcarbamate)
 application, seed treatment 8728
 control
 Agrypnus variabilis 8658
 Gastropoda 356
 slugs 371
 sugarbeet
 arthropod pests 8728
 insect pests 2859
 Trifolium perenne, insect pests 1511
 Zonitoides nitidus 6996
 detection 3442
 effects
 Deroceras caruanae 316
 Deroceras reticulatum 318, 952, 5539
 Gastropoda 950
 Hofmannophila pseudospretella 3180
 invertebrates 951
 pastures 1441
 nontarget effects
 Araneae 11592
 Carabidae 277
 invertebrates 371
 Lumbricus terrestris 975
 mammals 8109
 meadows, invertebrates 463
 residues, plants 3442
 resistance, *Cacopsylla pyricola* 1565
 toxicity, *Deroceras reticulatum* 2551
 usage, reviews 299
- Methionine**, kairomones, *Ascogaster reticulata* 234
- Methomyl** (methyl *N*-[[[(methylamino)carbonyl]oxy]ethanimidothioate)
 control
 Aspidiotus destructor 10666
 Diatraea 8515
 Lepidoptera 10857
 Lygus 2680
 Noctuidae 6981, 8663
 onions, insect pests 8750
 Phaseolus vulgaris, insect pests 1639
 potatoes, arthropod pests 1683
 Spodoptera frugiperda 5623, 8482, 8497, 9562
 Tortricidae 536
 vegetables, Acari 1713
 degradation, soil 11222
 detection 3442
 effects
 Chrysodeixis includens 5824
 Glabromicroplitis croceipes 4916
 maize 10122
 man 9079
 Mythimna separata 9198
 Saintpaulia ionantha 9908

Methomyl *cont.*

- mixtures
 - control
 - Diatraea* 8515
 - Lepidoptera 10857
 - Plutella xylostella* 3852
 - nontarget effects, soil arthropods 1731
 - toxicity, *Agrotis ipsilon* 8041
- nontarget effects
 - Doru luteipes* 5623
 - man 9017
 - soil arthropods 1731
 - Trichogramma* 8762
- penetration, *Rhizoglyphus echinopus* 4895
- residues
 - foods 10224
 - plants 3442
- resistance
 - maize 8499
 - Phyllonorycter blancardella* 8603, 10699
 - Plutella xylostella* 10106
 - Spodoptera exigua* 11977
 - Spodoptera littoralis* 3935
- toxicity
 - Chelonus blackburni* 8390
 - Choristoneura occidentalis* 3002
 - Cyrtorhinus lividipennis* 11464
 - Heliothis virescens* 11976
 - Heterorhabditis bacteriophora* 8981
 - Hymenoptera 10458
 - man 8099
 - Noctuidae 2914
 - Platynota idaeusalis* 6813
 - Rhynchophorus cruentatus* 9911
 - Zeiraphera canadensis* 8853
- with diflubenzuron
 - nontarget effects, soil arthropods 1731
 - resistance, *Spodoptera littoralis* 2905

Methoprene ((2*E*,4*E*)-1-methylethyl 11-methoxy-3,7,11-trimethyl-2,4-dodecadienoate)

- baits, *Monomorium pharaonis* 4453
- control, *Monomorium pharaonis* 4457
- detection 5203
- effects
 - Agrotis ipsilon* 4291
 - Arcte coerula* 5330
 - Bombyx mori* 2180
 - Bursaphelenchus xylophilus* 9082
 - Ceratitis capitata* 7236
 - Choristoneura fumiferana* 7234
 - Chrysocoris stollis* 989
 - Coptotermes formosanus* 4553
 - Drosophila melanogaster* 97
 - Galleria* 7979
 - Goniozus nephantidis* 9649
 - Lepidoptera 11334
 - Lycoriella mali* 2790
 - Mamestra brassicae* 9253
 - Mythimna* 2272
 - Nezara viridula* 4172
 - Oryctes rhinoceros* 10667
 - Pectinophora gossypiella* 4214
 - Phthorimaea operculella* 1685
 - Pyrilidae 2071
 - Scirpophaga incertulas* 11177
 - Spodoptera litura* 5119
 - Trogoderma granarium* 11174
- mixtures
 - toxicity
 - Lepidoptera 10855
 - maize, commodities, insect pests 11030
- resistance, *Drosophila melanogaster* 7231
- structure activity relationships 8148
- toxicity
 - Apis mellifera* 11998
 - Drosophila melanogaster* 4215
 - Lepidoptera 10855
 - Tephritidae 11049
 - Tribolium castaneum* 7979

Methoxsalen

- antifeedants, *Spodoptera litura* 10162
- effects
 - Depressaria pastinacella* 10813

Methoxsalen *cont.*

- effects *cont.*
 - Papilio polyxenes* 3152
 - Trichoplusia ni* 9199
- metabolism, *Depressaria pastinacella* 9056
- 6-Methoxy-2-benzoxazolinone**
 - antifeedants, *Carpophilus hemipterus* 8498
 - mixtures, toxicity, Noctuidae 11158
 - synergism 11158
- 2-(4-Methoxybenzyl)-1-cyclohexanone**, degradation 992
- Methoxychlor** (1,1'-(2,2,2-trichloroethylidene)bis[4-methoxybenzene])
 - control
 - Agrilus ruficollis* 3761
 - Leptinotarsa decemlineata* 4210
 - effects
 - aquatic organisms 7194
 - fishes 5206
 - rats 956, 5198, 7211
 - mixtures, control, insect pests 5167
 - nontarget effects, rats 6192
 - pollutants, marine areas 4213
 - residues
 - drinking water 7214
 - medicinal plants, commodities 4053
 - potatoes 4210
 - soil 4210
 - solubility 11988
 - toxicity
 - fishes 966
 - Scolytus multistriatus* 5051
 - with bromfenvinphos, control, insect pests 5167
- 5-Methoxy-6-[1-(4-methoxyphenyl) ethyl]-1,3-benzodioxole**
 - effects, *Bombyx mori* 1357
 - synthesis 1357
- Methyl bromide**
 - control
 - Anastrepha suspensa* 3074
 - Bactrocera xanthodes* 4085
 - Bruchus pisorum* 7090
 - Citrus*, commodities, insect pests 1912
 - Cydia pomonella* 1901, 8965, 11052
 - Dolichotetranychus floridanus* 8657
 - Phthorimaea operculella* 850
 - stored products pests 11037, 11898
 - Tinea pellionella* 1888
 - effects
 - apples, commodities 1901
 - Cydia pomonella* 7186
 - melons 4082
 - persimmons 4083
 - Sitophilus granarius* 8931
 - mixtures
 - control, *Bruchus pisorum* 7090
 - toxicity, *Tribolium castaneum* 7181, 8948
 - nontarget effects
 - apples, commodities 7113
 - cereal grains 5094
 - man 2022
 - residues
 - apples, commodities 7992
 - Citrus*, commodities 1912
 - estimation 7992
 - mangoes, commodities 11047
 - nectarines, commodities 11052
 - soil sterilization 11118
 - toxicity
 - mice 8106
 - Phthorimaea operculella* 4179
 - Pyrilidae 6169
 - stored products pests 845
 - Tribolium castaneum* 8948
- Methyl (2*E*,4*Z*)-2,4-decadienoate**
 - attractants, *Pityogenes chalcographus* 8835
 - synergism 8835
 - with chalcogran, attractants, *Pityogenes chalcographus* 5979
- Methyl-demeton** (see Demeton-S-methyl; Demeton-methyl)
- Methyl-demeton-O** (see Demeton-O-methyl)
- Methyl-demeton-S** (see Demeton-S-methyl)

Methyl epi-jasmonate, mixtures, pheromones, *Cydia molesta* 7734

- Methyl eugenol** (1,2-dimethoxy-4-(2-propenyl)benzene)
 - attractants
 - Bactrocera cucurbitae* 6133
 - Bactrocera dorsalis* 582, 4707, 10657
 - Diptera 178
 - Tephritidae 7726

Methyl iodide

- mixtures, toxicity, *Tribolium castaneum* 7181
- toxicity, stored products pests 845
- Methyl isothiocyanate**, effects, mice 964
- Methyl jasmonate**, mixtures, pheromones, *Cydia molesta* 7734
- Methyl-O-demeton** (see Demeton-O-methyl)
- Methyl parathion** (see Parathion-methyl)
- Methyl propyl disulfide**, attractants, *Diadromus pulchellus* 235
- Methyl salicylate**, attractants, Phytoseiidae 7794
- Methylamine**, control, *Agromyza cinerascens* 2603
- Methylbutenol**, mixtures, pheromones, *Ips typographus* 7064
- 2-Methyl-3-buten-2-ol**
 - mixtures
 - attractants
 - Ips typographus* 2984, 9982
 - Scolytidae 10005
 - control, *Orthotomicus erosus* 2950
 - pheromones, *Ips typographus* 2229
 - pheromones, *Ips typographus* 3025
 - R-1-Methylbutyl decanoate**, pheromones, *Thyridopteryx ephemeraeformis* 5300
 - (S)-(+)-1-Methylbutyl (E)-2,4-dimethyl-2-pentenoate**, mixtures, pheromones, *Rhyzopertha dominica* 10278
 - (S)-(+)-1-Methylbutyl (E)-2,4-dimethyl-2-pentenoate**, synthesis 10278
 - (S)-(+)-1-Methylbutyl (E)-2-methyl-2-pentenoate**, mixtures, pheromones, *Rhyzopertha dominica* 10278
 - (S)-(+)-1-Methylbutyl (E)-2-methyl-2-pentenoate**, synthesis 10278
- Methylchlor** (see Methyl-DDT)
- Methylchloroform**
 - mixtures, toxicity, *Tribolium castaneum* 8948
 - toxicity, *Tribolium castaneum* 8948
- 1-Methyl-2-cyclohexen-1-ol**
 - pheromones, *Dendroctonus pseudotsugae* 74
 - synthesis 74
- (E,Z)-Methyl-2,4-decadienoate**, pheromones, *Pityogenes chalcographus* 63
- 8-Methyl-2-decyl-propanoate**, pheromones, *Diabrotica virgifera* 11545
- (E)-7-Methyl-1,6-dioxo[4.5]decane**
 - pheromones, *Vespula vulgaris* 4311
 - synthesis 4311
- (E)-2-Methyl-1,6-dioxaspiro[4.5]decane**
 - pheromones, *Vespula vulgaris* 4311
 - synthesis 4311
- (Z)-2-Methyl-1,6-dioxaspiro[4.5]decane**
 - pheromones, *Vespula vulgaris* 4311
 - synthesis 4311
- 10-Methyldodecyl acetate**, mixtures, pheromones, *Adoxophyes* 8797
- Methylene chloride**, volatile compounds, effects, *Earias vittella* 4185
- 1-Methylethyl (2*E*,4*E*)-2,4-dimethyl-2,4-heptadienoate**, mixtures, pheromones, *Prostephanus truncatus* 6715
- (E)-1-Methylethyl 2-methyl-2-pentenoate**, mixtures, pheromones, *Prostephanus truncatus* 6715
- 4-Methyl-3-heptanone**, *Eragrostis curvula*, germination, inhibitors 1230
- (Z)-14-Methyl-8-hexadecenal**
 - pheromones, *Trogoderma* 72, 6302
 - synthesis 72, 6302
- 2-Methyl-6-methylen-7-octen-4-on**, pheromones, Scolytidae 1377
- 2-Methyl-2-(methylsulfinyl)propanal O-[(methylamino)carbonyl]oxime**, residues, groundwater 10154

- 4-Methyl-1-nonanol**
pheromones, *Tenebrio molitor* 9237
synthesis 9237
- (3R,6E)-7-Methyl-6-nonen-3-yl acetate**,
pheromones, *Cathartus quadricollis*
4056
- 6-Methyl-3-octanone**, pheromones,
Crematogaster 6301
- (R)-6-Methyl-3-octanone**, synthesis 6301
- (S)-6-Methyl-3-octanone**, synthesis 6301
- 2(E)-(4-Methyl-3-pentenylidene)butanedia**
pheromones, *Tyrophagus putrescentiae*
10270
synthesis 10270
- 2-[1-Methyl-2-(4-phenoxyphenoxy)
ethoxy]pyridine**
effects
Coptotermes formosanus 4553
Rhinotermitidae 8959
- 1-[(4-Methylphenyl)methoxy]-4-
pentylbenzene**, effects, *Corcyra
cephalonica* 4171, 11176
- N-(2-Methylpropyl)-2,4-dienamides**, toxic-
ity, insects 11966
- (2E,4E)-N-(2-Methylpropyl)-6-phenylhexa-
2,4-dienamide**
analogues, toxicity, insects 11965
toxicity, insects 11964
- N-(2-Methylpropyl)-6-phenylhexa-2,4-
dienamides**, derivatives, toxicity,
Phaedon cochleariae 11146, 11239
- Methylquinone**, toxicity, *Tribolium cas-
taneum* 1905
- Metioche vittaticollis**, Pacific Islands 191
- Metiram**, nontarget effects,
Kampimodromus aberrans 5715
- Metochus uniguttatus**
biology, behaviour 7741
food plants, India 7741
- Metolcarb** (3-methylphenyl methylcarba-
mate)
control, *Nilaparvata lugens* 3163
herbicides, compatibility 1462
nontarget effects, beneficial arthropods
3163
toxicity, *Mythimna separata* 5668
with phenthoate, toxicity, fishes 6174
- Metopina zikani**
Guatemala 10485
Nasutitermes corniger, interactions
10485
- Metopolophium dirhodum**
biology 4622, 5582
environmental factors 2608
phenology 8443
cereals
Argentina 4622
Denmark 4616
Italy 5582
New Zealand 2596, 10551
UK 5595
Chile 6109
control 5582
biological control 2596, 6109
insecticides 1432, 3662
integrated control 4160
distribution, Jordan 5392
ecology, population dynamics 389,
1433, 5595
field crops, Hungary 8446
German Democratic Republic 11123
Gramineae, UK 8443
grasses, Washington 10635
insecticides, pathogenicity 11916
maize
France 2634
Quebec 6714
monitoring, traps 11123
natural enemies 2617
oats, food preferences 9544
parasitoids 6109
pathogens 11910
models 9523
plant diseases, interactions 2608
plant extracts, toxicity 1413
plant pathogens, transmission 2634,
10551
predators 1432-1433, 3662, 4616, 6714
triticale, German Democratic Republic
372
- Metopolophium dirhodum cont.**
wheat
Czechoslovakia 375
German Federal Republic 1432-
1433, 2608, 2617, 3662, 4160
Spain 389
varietal susceptibility 10571
- Metopolophium festucae cerealium**
biology, phenology 8443
Gramineae, UK 8443
- Metriorhynchus rufipennis**
Peristeranthus hillii, pollination 1766
Queensland 1766
- Metzneria lappella**
Arctium minus, USA 3619
parasitoids 3619
- Mevinphos** (methyl 3-[(dimethox-
yphosphinyl)oxy]-2-butenolate)
control, *Nasonovia ribisnigri* 597
effects
Beauveria bassiana 5110
man 9079
Saintpaulia ionantha 9908
mixtures, control, onions, insect pests
8750
toxicity
man 8099
rats 2033
- Mexacarbate** (4-(dimethylamino)-3,5-
dimethylphenyl methylcarbamate)
control, *Brevipalpus phoenicis* 6838
deposition, forest trees 10906
formulations, sprays 10906
residues
Abies balsamea 8893
water 8133
toxicity
fishes 8104
Zeiraphera canadensis 8853
- Mexico**
Acanthoscelides 8418
Anagrus epos 5712
Anastrepha 9732
Anthonomus eugenii 9742
Anthonomus grandis 11769
Apis mellifera, ectoparasites 1269,
7499
Argentinorhynchus 6638
Atopomacer hoplites 5261
Atta mexicana 9374
Baccharis salicifolia, arthropods 9506
Bemisia tabaci 7845
biological control 5160
Bycra villosa 9374
Canthon cyanellus 9615
Carinodula campbelli 8895
Cerambycidae 2372, 3409
Chilocorus cacti, ectoparasites 4470
Coleoptera 9329
conifers, insect pests 7009
cotton, insect pests 742
crops, insect pests 402
Danaus plexippus 6664, 7400
Datana integerrima, natural enemies
2717
Diatraea grandiosella 4638
parasitoids 4637
Drosophila 6475
nuclear energy, effects 7722
Drosophila pseudoobscura 6374
Eciton burchelli 7486
Epilachna varivestis 631-632
Epilachninae, natural enemies 630
Euphilotes bernardino 10524
Fossispa lutena 4678
Frankliniella 9716
Galendromus annectens 9646
Heteropsylla cubana, parasitoids 7045
Hippodamia 9176
Hypaurotis crysalis 4005
Hypothenemus hampei 767
maize
commodities, insect pests 10023
Lepidoptera 2624
Pyralidae 2632
Merobruchus 3249
Metachroma 1524
Metepeira 2443
Neohydronomus 7559
Oxyporus 10755
Papilio alexiares 10896
- Mexico cont.**
Paradirpha 10690
Pieridae 9327
Pyralidae 10587
parasitoids 5584
Rhopalocera 10362
Rhyacionia 799
Schomburgkia tibicinis, insect pests
1754
soil
invertebrates 1348
mites 9330
Sphingidae 3413
Spodoptera frugiperda 404
parasitoids 403
Tenebrionidae 3983
Tephritidae 3080
parasitoids 8636
Tillancoccus mexicanus 4965
Tyndaris robusta 2988
- Mezira granulata**
distribution, Arkansas 3410
Quercus 3410
- Mezira sayi**
distribution
Arkansas 3410
Florida 7444
Quercus 3410
- MGK-264** (see 2-(2-Ethylhexyl)-3a,4,7,7a-
terahydro-4,7-methano-1H-isindole-
1,3(2H)-dione)
- Mice**
Bacillus, effects 9087
entomogenous fungi, effects 3117
fumigants, effects 964
insecticides
effects 2032, 3186-3187, 4192,
5205, 8101, 8503, 9074
metabolism 8102
toxicity 8106
microbial pesticides, effects 11967
prey, *Lymantria dispar* 5043
- Michaelopus corticalis**
chestnuts, Italy 11632
Cryphonectria parasitica, interactions
11632
- Micraspis crocea**
prey, *Nilaparvata lugens* 445
rice
fields, Philippines 445
pollen, food 445
- Micraspis discolor**
biology 1307
fields, India 1307
prey, *Aphis* 1307
- Microbembix monodonta**
distribution, Chile 1340
taxonomy 1340
- Microbial pesticides** (see also individual
types of microbial pesticides)
application 9022
control
apples, arthropod pests 8599
Curculionidae, conferences 4239
Cydia pomonella 545
grapes, arthropod pests 11627
insect pests 3120
Lepidoptera 2587
Lobesia botrana 2716
Noctuidae 8053
formulations, controlled release 10188
genetic engineering 3108, 7232
information, USSR 2600
legislation, German Federal Republic
6178-6179
nontarget effects, evaluation 11952
organic farming, books 11256
pest control 1001, 6105-6107, 9022
books 10196
conferences 10216
reviews 1966, 8052, 11953
production 7139
residues
drinking water 6178, 6181
groundwater 6179
water 6182
reviews 7159
- Microcerotermes**
food plants
Kenya 5513
Nigeria 5508

- Microcerotermes beesoni*, biology, movement 11490
- Microcerotermes papuanus*
biology, development 11478
Papua New Guinea 11478
- Microcharops*
America 3496
taxonomy 3496
- Microcharops anticarsiae*
hosts, Lepidoptera 3496
taxonomy, new species 3496
- Microcharops bimaculata*
hosts, Lepidoptera 3496
taxonomy
synonyms
Charopsimorpha annulata 3496
Charopsimorpha unincta 3496
- Microcharops rufoantennata*
hosts, Lepidoptera 3496
taxonomy, new species 3496
- Microcharops taitica*
hosts, Lepidoptera 3496
taxonomy, from *Limnerium* 3496
- Micrococcus luteus*
Locusta migratoria, interactions 11416
Pieris brassicae, serum, effects 4199
- Microctonus aethiopoides*
hosts, *Sitona discoideus* 9641
lucerne, fields, New Zealand 9641
- Microctonus pachylobii*
hosts, *Hylobius* 10984
Pinus, forests, Wisconsin 10984
- Microdiprion pallipes*
Finland 5977
heavy metals, residues 5977
pathogens 1826
Pinus sylvestris 5977
- Microdon xanthopilus*
morphology 6276
Washington 6276
- Microdus rufipes*
apples, orchards, USSR 2743
distribution, USSR 1555
hosts, *Cydia pomonella* 1555, 2743
orchards 1555
parasitoids 2743
- Microgaster*
groundnuts, fields, India 11733
hosts
Scopula albiflava 11733
Spodoptera litura 1687
potatoes
fields, India 1687
India 1687
- Microgaster demolitor*
biology, behaviour 6546
Copidosoma floridanum, interactions 10444
hosts
Chrysodeixis includens 10444
Heliothis virescens 5475, 6546
- Microgaster hospes*
Allium, fields, Poland 1704
hosts, *Acrolepiopsis assectella* 1704
- Microgaster kewleyi*
biology, behaviour 2122
hosts, *Agrotis ipsilon* 2122
- Microgaster rufiventris*
hosts
Noctuidae 222
Spodoptera littoralis 1722
insecticides, effects 1722
- Microgaster spectabilis*
cotton, fields, USSR 2904
hosts, *Agrotis segetum* 2904
- Microgastrinae*
hosts, *Diatraea* 263
taxonomy 263
- Microhilum*, taxonomy, new genus 6067
- Microhilum oncoperae*
hosts, *Oncopera intricata* 6067
taxonomy, new species 6067
- Microleptogaster lypiformis*
control, *Tribulus cistoides* 8429
distribution, America 8429
- Microlepidoptera*, Hungary 2371
- Micromus*
biology 3528
distribution, Canada 6537
morphology 3528
North America 3528
- Micromus* cont.
prey, Homoptera 3528
taxonomy 3528
- Micromus tasmaniae*, Australia 228
- Micromus timidus*
Australia 228
biology 9905
Papua New Guinea 229
prey, *Toxoptera aurantii* 9905
tea, plantations, India 9905
- Micromus variegatus*, distribution, North America 3528
- Micromymar*, taxonomy, synonyms, of *Telenomus* 6552
- Micromymar etiellipaga*, taxonomy, to *Telenomus* 6552
- Micronesia*, *Eupatorium odoratum*, natural enemies 8433
- Microorganisms*
insecticides
degradation 10140
effects 2063, 4247
invertebrates, symbiosis 11379
- Micropeplus*
North America 9960
taxonomy 9960
- Micropeplus nelsoni*
Alnus, litter, Washington 9960
Cymindis seriata, interactions 9960
taxonomy, new species 9960
- Microphoridae*
Palaeartic Region, books 5232
taxonomy 5232
- Microplitis* (see *Microgaster*)
- Microplitis croceipes* (see *Glabromicroplitis croceipes*)
- Microplitis demolitor* (see *Microgaster demolitor*)
- Microplitis kewleyi* (see *Microgaster kewleyi*)
- Microplitis rufiventris* (see *Microgaster rufiventris*)
- Microorhopala xerene*
Aster, Virginia 9914
biology 9914
- Microselia southwoodi*
habitats, France 7008
taxonomy, new species 7008
- Microspora*
hosts
Chorthippus curtipennis 6504
Lepidoptera 6745
Lymantria dispar 8822
Pimpla turionellae 11065
- Microsporidium sitophili*, hosts, *Sitophilus oryzae* 7967
- Microtermes*
biology 1779, 5510-5511
Citrus, Ethiopia 1582
control 1779
ecology, distribution 5507
food plants, Nigeria 5508
forest trees, damage 831
fungi, interactions 5511
fungicides, effects 5511
rearing techniques 5510
soil, Nigeria 5507
Sudan 5510
Termitomyces
interactions, reviews 4554
symbiosis 11485
trees, India 1779
- Microtermes albopartitus*
biology 5510-5511
behaviour 8396
fungi, interactions 5511
fungicides, effects 5511
rearing techniques 5510
Sudan 5510, 8396
- Microtermes aluco*
ecology, distribution 5507
soil, Nigeria 5507
- Microtermes bharpurensis*
grasses, India 6601
taxonomy, new species 6601
- Microtermes lepidus*
biology, behaviour 8396
ecology, distribution 5507
insecticides, toxicity 6600
marking 11486
soil, Nigeria 5507
- Microtermes lepidus* cont.
Sudan 8396
Termitomyces, symbiosis 11485
- Microtermes mycophagus*
Cicer arietinum, India 8725
control, insecticides 8725
cotton, Pakistan 4917
- Microtermes najdensis*
biology, behaviour 8396
Sudan 8396
- Microtermes obesi*
control, mulches 7095
cotton, Pakistan 4917
groundnuts, commodities 7095
mangoes, wood, Pakistan 11043
- Microtermes unicolor*
cotton, Pakistan 4917
India 5525
predators 5525
- Microterys*
Citrus, orchards, Cuba 9712
hosts, *Coccus* 9712
- Microterys duplicatus*
habitats, Poland 5068
hosts, *Eulecanium tiliae* 5068
- Microterys okitsuensis*
control, *Coccus pseudomagnoliarum*, evaluation 2756
Japan 2756
- Microthrix inconspicua* (see *Elegia inconspicua*)
- Microtylopteryx hebardei*
biology, behaviour 3756
food plants, Costa Rica 3756
- Microvelia*
prey, Hemiptera 8514
rice, fields, India 8514
- Microvelia atrolineata* (see *M. douglasi atrolineata*)
- Microvelia douglasi*
biology 10465
ponds, Japan 10465
- Microvelia douglasi atrolineata*, rice, fields, Philippines 5664
- Microvelia horvathi*
biology 10465
ponds, Japan 10465
- Microvelia kyushuensis*
biology 10465
ponds, Japan 10465
- Microwave treatment*, control, museum specimens, insect pests 11016
- Middle East**
Bruchidae 3429
Sparassidae 10467
- Midway Islands**, Isoptera 4548
- Migration**
Acyrtosiphon pisum 10652
Agrotis ipsilon 3391
Aphididae 749, 10579
reviews 1421
arthropods, North America 6467, 6495
Bemisia tabaci 7764
Coleoptera 8828
Danaus plexippus 1158, 6664
Delphacidae 5643, 11374
Diplopoda 1156
Empoasca kraemeri 638
insect pests, meteorology, books 7284
insects
Japan 3390
remote sensing 6493
reviews 1157
Lepidoptera 1159, 2322, 7415
models 6439
Mythimna separata 2321, 3386, 5370-5371, 5669-5670, 5687
Nilaparvata lugens 10620
Peridroma saucia 9633
Rhopalocera 5402
Scolytidae 4250
Sitobion avenae 10562
Sitona discoideus 9641
Spodoptera exempta 9238
- Milax budapestensis* (see *Tandonia budapestensis*)
- Milax gagates*, pastures, New Zealand 474
- Milbemycin D**
effects
insects 1122
Lymantria dispar 5178, 11131

- Milbemycins**, synthesis 11962
- Milbol** (see Dicofol)
- Milesiinae**
Italy 2489
taxonomy, keys 2489
- Miletinae**
morphology, legs 1049
phylogeny 1049
- Milonia basalis**, *Pinus merkusii*, Indonesia 8816
- Milk**
insecticides, residues 1891, 6727, 7302, 8118
pesticides, residues 7082
- Milllets**
arthropod pests
China 8064
India 12021
monitoring 8064
Busseola fusca, Africa 6459
Chilo partellus 6460
Cicadulina mbila 6455
commodities, Coleoptera, German Federal Republic 3049
fields, parasitoids, USSR 2587
insect pests 2641
USSR 1427, 2587
Nilaparvata lugens 9589
Ostrinia furnacalis, China 10590
pest control
USSR 419
Zimbabwe 1600
yield losses, assessment 2641
- Milletia racemosa**
extracts, toxicity, *Spodoptera litura* 1986
insecticidal properties 1986
- Mimegralla coeruleifrons**
biology 6670
food plants 6670
ginger, India 10526
India 346
parasitoids 6670
plant diseases, interactions 346
- Mimela testaceipes**
cold resistance 1059
Japan 1059
- Mimiocurus beesoni**
taxonomy, new species 804
Tiliacora acuminata 804
- Mimosa invisa**, *Acanthoscelides* 8418
- Mimosa pigra**
Australian Northern Territory 8418
biological control 8418, 8428
Chlamisus mimosae, Brazil 8428
natural enemies, Australian Northern Territory 9491
Risbecoma pigrae, Ivory Coast 3514
Thailand 8418
- Mimosa scabrella**, *Spodoptera eridania*, Brazil 8831
- Mimosaceae**, extracts, effects, *Bruchidius atrolineatus* 7111
- Mimoschinia rufofascialis**
parasitoids 8425
Texas 8425
- Mimosoideae**, *Merobruchus*, America 3249
- Mimusops elengi**, *Nephoterix eugraphella*, India 11673
- Mimusops hexandra**, *Nephoterix eugraphella*, India 11673
- Mindarus abietinus**, *Abies balsamea*, Michigan 8854
- Mineral oils**
control
Alophagus myersi 8800
apples, arthropod pests 2742
Coccoidea 524
Dialeurodes citri 7751
Dolichotetranychus floridanus 8657
fruits, arthropod pests 526
Hemiberlesia pitysochila 3978
insect pests 3120
Isoptera 1908
Panonychus ulmi 8589
Quadraspidotus ostreaeformis 5719
Selenaspis articulatus 9715
Tetranychidae 2752, 10689
Unaspis citri 10724
effects, *Myzus persicae* 1745, 10871
- Mineral oils cont.**
mixtures
control
Metacaronema japonica 8652
Myzus persicae 695
Orthozia praelonga 4954
Ostrinia nubilalis 2631
Panonychus ulmi 10696
Phyllocoptura oleivora 9720
Quadraspidotus ostreaeformis 5719
Selenaspis articulatus 9715
nontarget effects
Carabidae 695
Eutetranychus banksi 9720
Phytoseiidae 6837
predatory insects 9715
toxicity
Ceraeochrysa cubana 10461
Plutella xylostella 5783
nontarget effects, predatory insects 9715
toxicity
oranges 10730
Scutovertex sculptus 2009
with dimethoate
control, *Unaspis citri* 10724
toxicity, *Cycloneda sanguinea* 9453, 10462
- MIPC** (see Isoprocab)
- Mirabilis jalapa**
Aceratagallia sanguinolenta, Minnesota 10885
Catorhintha, America 349
- Mirax insularis**
coffee, plantations, Puerto Rico 1750
hosts, *Perileucoptera coffeella* 1750
- Mirex** (1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-1,3,4-metheno-1H-cyclobuta[cd]pentalene)
control, Isoptera 9462
degradation, water 8072
residues, human milk 2018
- Miridae**
apples
Nova Scotia 2738
orchards, Switzerland 2742
cocoa, Malaysia 1747
control
insecticides 2738
integrated control 1747
morphology, reproductive organs 9187
North America 6467
prey, apples, arthropod pests 2742
Quercus, Austria 4043
- Mirinae**, morphology, reproductive organs 9187
- Mirperus**, sorghum, Africa 3717
- Mischocyttarus flavitarsus**, prey, Lepidoptera 5550
- Misumena**, physiology, reproductive organs 4330
- Misumena vatia**
Asclepias syriaca, habitats, Maine 6564
biology, behaviour 8544, 9435
ecology, population dynamics 6564
fields, Mississippi 8544
Maine 9435, 10430
prey, insects 6564, 8544, 10430
- Misumenops**
Aster pilosus, habitats, Mississippi 1388
ecology 3889
groundnuts, fields, Texas 3889
prey
arthropods 3889
Lygus lineolaris 1388
taxonomy 2358
- Misumenops lepidus**
grasslands, Utah 3729
prey, Miridae 3729
- Mites** (see also Acari)
apples
Hungary 8595
Massachusetts 10704
biology 2554, 7268, 7515, 10892
diapause, reviews 1149
models 1200
carnations, Hawaii 9910
cassava, Colombia 712
- Mites cont.**
Chile 5231
Citrus
China 6830
Egypt 572
control 712, 2554
insecticides 1683, 9923
plant oils 6830
crops, Italy 2554
ecology
distribution 8486, 9663
population dynamics 4750
Egypt 194, 10747
evolution 7515
forest pests, fungi, interactions 5024
fruits, Spain 4354
fungi, interactions 8988, 9980, 10946
grapes 9663
grasslands, UK 8535
insecticides, effects 8535
insects, interactions 194
Ips sexdentatus, phoresy 9980
Ips typographus, phoresy 10946
maize, Hungary 8486
natural enemies 712
ornamental plants
China 10892
Hungary 9923
pathogens 3096
Pelargonium, resistance 5906
plants, interactions 7556
potatoes, Egypt 1683
predators 572
social insects, interactions, reviews 7515
soil
Georgia 10353
Mexico 9330
South Africa 161
Spain 4569
tillage, effects 10353
trails, characterization 628
tyres, South Africa 8318
weeds, interactions 10704
woody plants, habitats 10469
- Mizonocara**, taxonomy 3224
- Mnesithea laevis**
biology, behaviour 3731
Gramineae, India 3731
- Mocis**
food plants, Cuba 5548
French Guiana 11075
pathogens 11075
- Mocis disseverans**
attractants 11725
soyabeans, Florida 11725
- Mocis latipes**
attractants 11725
distribution, maps 6459
Florida 2672
food plants, America 6459
identification 6893
monitoring, traps 2672
morphology, eggs 6893
pheromones 2672, 4309
soyabeans, Florida 6893, 11725
- Mocis marcida**
attractants 11725
soyabeans, Florida 11725
- Mocis repanda**
cereals 6459
distribution, maps 6459
- Models**
Acridinae, rangelands, economic thresholds 4684
Acrolepiopsis assectella, sampling 7832
Agrotis segetum, population dynamics 1166
Amyelois transitella, biology, heat sums 9670
animals, movement 5372
Anthonomus grandis, forecasting 6975
Aphididae
control, decision making 3651
cotton 6961
development 9171
entomogenous fungi, pathogenicity 9523
forecasting 1695
Araneae, dispersal 4370

Models cont.

- arthropods
 - biology 1200
 - orientation 10345
 - pesticides, nontarget effects 7271
 - population dynamics 6448, 9350, 10210
- Bacillus subtilis*, growth 6077
- Bactrocera dorsalis*, heat treatment, survival 8963
- Bactrocera oleae*, phenology 11668-11669
- beneficial arthropods
 - functional responses 3550
 - pesticides, effects 3538
- biological control 1970
- Bracon hebetor*, behaviour 4484
- Caledia captiva*, distribution 3463
- Callosobruchus*, population dynamics 4086
- Calosoma sycophanta*, development 11444
- Carabidae, population dynamics 10446
- Choristoneura fumiferana*, phenology 8836
- Choristoneura pinus*, development 10006
- Cnaphalocrocis medinalis*, forecasting 10614
- cotton
 - insect pests
 - economic thresholds 4934
 - forecasting 3938
 - pest control 5875, 9873
- crop production, economics 5547
- crops
 - arthropod pests, yield losses 924
 - yield losses 7453
- Cryptolestes pusillus*, population dynamics 11951
- Cydia pomonella*
 - biology, environmental factors 11648
 - granulosis viruses, effects 8584
 - population dynamics 4749
- Dendroctonus frontalis*, population dynamics 11844
- Dendroctonus micans*, behaviour 7960
- Diabrotica barberi*, population dynamics 8484-8485
- Diatraea grandiosella*, forecasting 9570
- Diatraea saccharalis*, fecundity 9609
- dieldrin, residues, fishes 937
- Diplopoda, migration 1156
- Diuraphis noxia*, wheat, Australia 10560
- Drosophila*, population dynamics 2153
- Drosophila melanogaster*
 - genes, activity 11354
 - population dynamics 1202
- ecosystems, aggregation 8309
- Edovum puttleri*, behaviour 1315
- Elasmopalpus lignosellus*, population dynamics 4648
- entomopathogens, reviews 8034
- Epilachna varivestis*, development 133
- Eurygaster integriceps*, forecasting 8463
- Euseius finlandicus*, biology, environmental factors 8569
- forecasting
 - Apamea anceps* 2619
 - Leptinotarsa decemlineata* 3146
- forest pests, population dynamics 10960
- Formicidae
 - behaviour 2422, 9382, 10418
 - population dynamics 7485
- greenhouse crops, pest control 5862
- groundwater, insecticide residues 11228
- Helicoverpa armigera*, sampling 2922
- Helicoverpa zea*
 - biology 2917
 - forecasting 11954
- herbivores, predators, interactions 7412
- Hodotermes mossambicus*, food acceptability 11601
- host parasite relationships 269, 4463, 4477, 5591
- tropics 2497
- Hymenoptera, population dynamics 5379

Models cont.

- Hypothenemus hampei*, development 9896
- insecticides
 - degradation 5208, 10102
 - drift 8115
 - resistance 6160
 - runoff 6191
 - toxicity 3158, 9353
- insects
 - behaviour 2505
 - biology, behaviour 10378
 - crowding 7118
 - ecology, population dynamics 10355
 - ecosystems 2722
 - evolution 2150
 - monitoring 6439
 - ontogeny 28
 - population dynamics 2333
 - population growth 6486
 - rearing techniques 11412
- integrated pest management 9010
- Ips typographus*
 - forest trees, interactions 11839
 - population dynamics 11836
- Iridomyrmex humilis*, behaviour 7487
- Lepidoptera
 - biology, polymorphism 10325
 - development 7450
- Leptinotarsa decemlineata*, population dynamics 10833
- Limax pseudoflavus*, activity 310
- Lymantria dispar*, population dynamics 7944
- Magicicada*, biology 10327
- Malacosoma disstria*, population dynamics 5049
- Melanoplus sanguinipes*, diapause 7327-7328
- Metopolophium dirhodum*, population dynamics 5595
- Misumena vatia*, population dynamics 6564
- mites, population dynamics 552, 4750, 4753
- Mononychellus tanajoa*, forecasting 9840
- natural enemies, behaviour 6588
- Neoseiulus fallacis*, dispersal 11453
- Nilaparvata lugens*
 - control 6723
 - population density 2659
- Noctuidae
 - emergence 9355
 - insect viruses 5109
 - population dynamics 2302
- Occidryas editha*, dispersal 2366
- organophosphorus compounds, structure activity relationships 9030
- Ostrinia nubilalis*
 - development 3677
 - pathogens, effects 5614
- Panonychus ulmi*
 - aggregation, estimation 4748
 - control 4745
- parasitoids 2501
 - ecology 1310, 2500
 - population dynamics 2502, 5789
 - rearing techniques 6535
- pest control 6102, 7163, 9013
- expert systems 5141, 6100
- movement 10087
- pest resistance 1977
- pesticides
 - application 7447
 - movement 11232
 - nontarget effects 8147
- Phthorimaea operculella*, potatoes, damage 11744
- Pieris rapae*, behaviour 2808
- Pissodes castaneus*, population dynamics 8838
- plant protection 9011
- plants, herbivores, interactions 6449
- Populus tremuloides*, insect pests, interactions 3027
- predator prey relationships 2436-2437, 4474, 5481, 7452, 7533-7535, 10629
- ecology 236
- predators, biology 6534

Models cont.

- predatory mites, body weight 8345
- production, Baculoviridae 11107
- Psallus seriatus*, population dynamics 5890
- Psila rosae*, traps, efficiency 10819
- Pterohelaeus darlingensis*, development 1195
- Pterostichus oblongopunctatus*, population dynamics 7421
- rearing techniques 2383
- Rhagoletis mendax*, forecasting 8555
- Rhagoletis pomonella*, oviposition 3009
- Rhopalocera, feeding 7410
- Rhopalosiphum padi*, plant viruses, transmission 8471
- Rhyzopertha dominica*, population dynamics 10033
- Schistocerca cancellata*, outbreaks 11415
- Scirpophaga incertulas*
 - damage 5665
 - population dynamics 444, 446
- Scolytidae
 - flight 11840
 - forest trees, interactions 11838
 - population dynamics 11837
- simulation models
 - Leptinotarsa decemlineata*, reproduction 2386
 - population dynamics 2384
- Sitobion avenae*
 - control 390
 - economics 5602
 - forecasting 3661, 8459
 - population dynamics 9364
- Sitophilus oryzae*, insecticides, resistance 7978
- slugs, prediction 304
- social insects
 - behaviour 6437
 - foraging 9352
- soybeans, pest control 658, 1666
- sterile insect release 279
- Telenomus reynoldsi*, functional responses 4478
- Tetranychidae, population dynamics 3789
- Tetranychus urticae*, oviposition 9653
- Tipula*, distribution 8524
- Tomicus piniperda*, swarming 11843
- Trialeurodes vaporariorum*
 - biological control 3526-3527
 - dispersal 5369
- Tribolium*, population dynamics 7091, 7972
- Trichoplusia ni*, movement 7782
- Tropilaelaps clareae*, distribution 10450
- Typhlodromus pyri*, behaviour 10453
- wheat, pest resistance 10575
- Modiola caroliniana*, *Apina callisto*, Australian Capital Territory 8421
- Moghania macrophylla*
 - Kerria lacca* 10316
 - Melanagromyza obtusa*, India 2813
- Molasses**
 - mixtures
 - attractants, *Melanagromyza obtusa* 5827
 - control, *Diatraea* 8515
 - with carbaryl, control, *Otiiorhynchus sulcatus* 3770
- Molecular genetics**
 - Amblyseius potentillae*, genes, insecticide resistance 10437
 - Antheraea polyphemus*, gene mapping 118
 - Autographa californica*, gene expression 8036
 - Bacillus thuringiensis* 8029
 - DNA 11099
 - genes, toxins 1938, 3092, 5116, 7125, 8011-8012, 8976, 10065, 10076, 11094
 - genetic engineering 3138, 4105, 11114
 - plasmids, transfer 10063
 - reviews 7127
 - Bacillus thuringiensis* subsp. *aizawai*, genes, toxins 1930, 7123

Molecular genetics cont.

- Bacillus thuringiensis* subsp. *berliner*, DNA, nucleotide sequences 7122
- Bacillus thuringiensis* subsp. *kurstaki*, genes, toxins 6064
- Bacillus thuringiensis* subsp. *tenebrionis*, genes, toxins 6064
- Bactrocera oleae*
genes
cuticle 1137
vitellogenins 3354
- Baculoviridae 8007, 8033
genetic engineering 993, 3108, 8040
- Beauveria bassiana*
DNA, characterization 4123
genetic transformation 11085
- Bombyx mori*
gene expression 119, 1353
gene mapping 2290
genes 5531, 7396
conversion 298
genetic engineering 3590
- Campoplex sonorensis*, gene expression 8371
- Cepaea nemoralis*, DNA 5542
- crops, genetic engineering, pest resistance 3137
- Danaus plexippus*, genes 5350
- Dendrolimus spectabilis*, gene expression 30
- Dichroplus pratensis*, cytogenetics 6378
- Diptera, genes 7395
- Drosophila*, gene expression 11355
- Drosophila auraria*, gene expression 7389
- Drosophila immigrans*, genes, enzymes 6385
- Drosophila melanogaster*
gene expression 51
genes, activity 11353-11354
growth regulators, resistance 7231
population genetics 9281
- entomogenous fungi, genetic engineering 885
- entomopathogens, genetic engineering 884
- Flavobacterium*, genetic engineering 11183
- Galleria mellonella*, gene expression 11328
- genetic engineering, pest resistance 3136
- Gryllus*, DNA 6384
- Heliothis virescens*, genes, sequences 7232
- Heterorhabditis*, genome analysis 1923
- insect viruses
genetic engineering 6106
pest control 3128
- insects, RNA 5348
- iridescent viruses, genome analysis 4125
- Lepidoptera, nucleotide sequences 4555
- Locusta migratoria*
gene mapping 2289
genes 2288
- Manduca sexta*
gene expression 1138, 5334, 9256
genes 10321
- Metarhizium anisopliae*
DNA 6072
gene transfer 10066
genes 6073
- Neoplectana carpocapsae*, genetic improvement 8026
- nuclear polyhedrosis viruses
gene expression 9000, 10081, 11092
gene mapping 11080
genes 2177, 11091, 11093, 11101
DNA 4559
nucleotide sequences 4106
genetic engineering 7133, 8991, 11108-11109
genomes 11106
recombinant DNA 6060
- pest control, genetic engineering 3089
- pest resistance, genetic engineering 1741, 1980-1981, 6131
- plants, genetic engineering 11121
- Praxibulus*, karyotypes 3468
- Rhagoletis pomonella*, genes 5734

Molecular genetics cont.

- Schizaphis graminum*, DNA 6383
- Sitophilus oryzae*, enzymes 8925
- Spodoptera litura*, DNA 5342
- Tenebrio molitor*
DNA 4071
gene mapping 1139
genome analysis 3058
- tobacco, genetic engineering, pest resistance 5893
- Trichoplusia ni*, gene mapping 117
- Vigna unguiculata*
genetic engineering, pest resistance 9798
pest resistance 8704
- Mollusca**
activity, research 311
biochemistry, antigens 7374
biology, lifespan 9484
control 2942
crops, Florida 4166
Denmark 10222
Europe 5377
insecticides, effects 2016
Libya 3407
metals, assimilation 7546
physiology
chemical composition 5377
nervous system 2547
plant extracts, toxicity 6612
pollution, effects 5377
reproduction 10181
research, Cuba 5532
rodenticides, toxicity 8124
Trifolium repens, UK 5692
- Molluscicidal properties**
Allium vineale, extracts 9048
Ambrosia maritima, extracts 9047
Azadirachta indica, bibliographies 5227
Combretum padoides, extracts 9039
Madhuca longifolia, extracts 10099
medicinal plants, extracts 6612
- Molluscicides**
determination 9047
effects, *Deroceras reticulatum* 305
information 10185
Austria 6148
USSR 395-396, 398, 401, 678, 909, 2600
testing 953
toxicity, determination 2551, 8079
- Momordica charantia**
Aulacophora foveicollis, food preferences 1630
Bactrocera cucurbitae
Hawaii 11615
Japan 5745
Mariana Islands 11359
Coridius janus 11704
Epilachna ocellata, India 2812
Epilachna septima, Indonesia 2553
pollen, food, *Orius sauteri* 3532
- Mompha subdivisella**
Epilobium hirsutum, UK 9505
morphology 9505
- Monacha cartusiana**
biology 9485
Greece 9485
- Monacha syriaca**, predators 3522
- Monellia caryella**
ecology, population dynamics 11633
pecans
Georgia 6802
South Carolina 11633
- Monelliopsis pecanis**
ecology, population dynamics 11633
pecans, South Carolina 11633
- Monensin**, effects, *Drosophila melanogaster*, cell lines 11335
- Mongolia**, *Gryon* 11465
- Monilinia fructigena**, vectors, *Drosophila subobscura* 10698
- Monoarthropalpus buxi**
biology, reproduction 4019
Buxus, Italy 4019
- Monobremia rishikeshensis**
biology 8432
Eupatorium odoratum, habitats, India 8432
prey, *Aphis spiraeicola* 8432

Monocerin

- insecticidal properties 7131
synthesis 7131
- Monochamus alternatus**
control, biological control 3967
pathogens 9945
physiology, sound production 9974
Pinus 9974
Japan 7927, 9928
Pinus thunbergii, Japan 7027, 9945
plant parasitic nematodes, transmission 3967
plant pathogens, transmission 7027, 7927, 8028, 9928
- Monochamus carolinensis**
biology, behaviour 3392
Bursaphelenchus xylophilus, interactions 1817
plant pathogens, transmission 10077
- Monochamus galloprovincialis**, *Pinus*, USSR 5074
- Monochamus scutellatus**
attractants 822
coniferous forests, Ontario 822
monitoring, traps 822
- Monochamus sutor**
pathogens 1819
Pinus sylvestris, Norway 1819
- Monochamus titillator**
Pinus taeda, Texas 8898
Scolytidae, interactions 8898
- Monochamus urussovii**
biology 3969
forest trees, China 3969
- Monococcus**, hosts, Lepidoptera 6745
- Monocrotophos ((E)-dimethyl 1-methyl-3-(methylamino)-3-oxo-1-propenyl phosphate)**
application 5010
control
Aleurocanthus woglumi 8648
Amrasca biguttula 8669
Amrasca devastans 11774
Amsacta moorei 11718
Anarsia ephippias 3867
Aonidiella aurantii 781
Aphis craccivora 6889
Aproaerema modicella 6906
Aspidiotus destructor 10666
Atherigona approximata 5632
Bagrada hilaris 5795
Bemisia tabaci 7879
Brevicoryne brassicae 4827
Bruchophagus fellis 7755
Cajanus cajan, insect pests 3887
Capsicum annuum, insect pests 2892
Castnia licus 6684
Ceroplastes floridensis 10532
Chloropulvinaria polygonata 11678
Cicadellidae 2887, 6884
Citrus, insect pests 568
Coccus viridis 9899
Contarinia 4977
cotton, insect pests 4919, 5891
Dialeurodes citri 9708
Dolichotetranychus floridanus 8657
Drosicha dalbergiae 2718
Drosicha mangiferae 7759
Empoasca kraemeri 9784
Euprosterna laesa 1543
grapes, Hemiptera 1552
groundnuts, insect pests 665, 9814
Helicoverpa armigera 5832, 5834, 8727
Heteropsylla cubana 813
Hispolepis subfasciata 1540
Idioscopus 6851
Idioscopus clypealis 11675
Indarbela quadrinotata 5010
Lepidoptera 1725, 6970
Leptocoris oratorius 11574
Leptopharsa gibbicarina 1543
Lipaphis erysimi 618, 6854, 6874
maize, insect pests 9573
Melanagromyza obruca 5830
Nilaparvata lugens 422
Oides scutellata 8574
okras, Hemiptera 9754
Oligonychus indicus 2664
Omiodes indicata 3882

Monocrotophos cont.

control cont.

- onions, insect pests 8750
- Ophiomyia phaseoli* 6888
- Phyllocnistis citrella* 7756
- Pyrilidae 2838
- Raoiella indica* 7711
- Rhopalosiphum maidis* 3664
- Rhynchaenus mangiferae* 584
- rice, insect pests 4666
- Rivula* 6899
- Scirpophaga incertulas* 10611
- Scirtothrips dorsalis* 5867
- soybeans, insect pests 3880, 9808
- Spilosoma obliqua* 2729
- Spodoptera litura* 8788
- Stenchaetothrips biformis* 3698
- Stenoma impressella* 1543
- Syllepte derogata* 755, 6962
- Termitidae 8725
- Thrips tabaci* 714, 7830
- Vigna radiata*, insect pests 2831
- Vigna unguiculata*, insect pests 2827
- Xylotrechus quadripes* 3947

effects

- bacteria 11214
- Copidosoma koehleri* 2868
- fishes 5206
- fungi 10580, 11195
- Macrophomina phaseolina* 2036
- mice 5205

formulations 7830

herbicides, compatibility 1462

mixtures

control

- Atherigona approximata* 5632
- Bothynoderes punctiventris* 6912
- cotton, insect pests 746
- groundnuts, insect pests 665
- Lipaphis erysimi* 618
- plant pathogens, vectors 11713
- toxicity, *Helicoverpa armigera* 2854

nontarget effects

- Bemisia tabaci* 1725
- Cheilomenes sexmaculata* 6889
- man 9071

photolysis 3202

residues

- grapes 11629
- limes 10731
- lucerne 11612
- mangoes 11676
- rice 11574
- soil 3202
- sorghum 3718
- tomatoes 4905
- Vigna radiata* 11227

synergism 2036

toxicity

- Aphis craccivora* 672
- Bemisia tabaci* 6974
- Clavigralla gibbosa* 9810
- Cucurbitaceae 8688
- Cyrtorhinus lividipennis* 11464
- Earias vittella* 5194
- Epilachna vigintioctopunctata* 5846
- Helicoverpa armigera* 2854
- Leptocoris acuta* 11178
- Liothrips karnyi* 11521
- Macrocentrus linearis* 7511
- Mylabris phalerata* 10808
- Scirpophaga incertulas* 432
- Spilosoma obliqua* 7783, 10114
- Spodoptera litura* 3164, 9590
- Trichogramma brasiliense* 11451

Monoctenus juniperi, distribution, Italy 5387**Monoctonus pseudoplatani** (see *Falciconus pseudoplatani*)**Monodes deltooides** (see *Elaphria deltooides*)**Monodontomerus obsoletus**

- fungicides, effects 9445
- hosts, *Megachile rotundata* 9445

Monogonogastra, taxonomy, synonyms, of *Digonogastra* 1333**Monolepta**

- biology 5899
- cocoa, Puerto Rico 5899

Monolepta bipartitus

- biology 5899
- cocoa, Puerto Rico 5899

Monolepta signata

- biology, phenology 1675
- Cicer arietinum*, Bangladesh 1675

Monomorium

- coconuts, plantations, Sri Lanka 3757
- France 11042
- hosts, *Opisina arenosella* 3757
- Reticulitermes*, interactions 11042

Monomorium destructor

- India 10413
- predators 10413

Monomorium floricola

- coconuts, plantations, Sri Lanka 3757
- hosts, *Opisina arenosella* 3757

Monomorium minimum

- monitoring, traps 8324
- prey, *Hypocala subsatura* 342
- Texas 8324

Monomorium pharaonis

- attractants 9383
- biology, behaviour 280, 9381
- buildings
 - Czechoslovakia 4457
 - German Democratic Republic 6511
- control, insecticides 4457
- diets 9383
- growth regulators, baits 4453
- prey, *Psammotermes hybostoma* 280
- rearing techniques 9383

Mononychellus

cassava

- Africa 2875
- Colombia 9841
- East Africa 2938
- genetics 2938
- predators 9841

Mononychellus progresivus

- cassava, East Africa 2938
- genetics 2938

Mononychellus tanajoa, differentiation 2875, 2938**Mononychellus tanajoa**

- Africa, books 7276
- biological control agents, evaluation 11745
- biology 7276
- Brazil 6452
- cassava 7276, 9840, 11745
 - Africa 2875
 - Colombia 713
 - Nigeria 9839
 - resistance 6932
- control 7276
- ecology
 - distribution 713
 - population dynamics 9839-9840
- forecasting 9840
- Mononychellus progresivus*, differentiation 2875, 2938
- predators 713
- sampling 713

Monotrysis, taxonomy 4259**Montandonioli moraguesi**

- Israel 1182
- prey, *Gynaikothrips ficorum* 1182

Monterey pine (see *Pinus radiata*)**Montina confusa**

- Eucalyptus*, plantations, Brazil 10914
- prey, forest pests 10914

Moorlands

- Coleoptera, UK 6539
- Staphylinidae, UK 6540
- Mora*, *Neoclytus englemanni*, Panama 8858

Morantel, effects, insects 6342**Mordella sydneiana**

- biology, food plants 3066
- Casuarina cunninghamiana*, wood, New South Wales 3066

Mordellistena, ecology, population dynamics 7568**Mordellistena tetraspilota**

- Nolina microcarpa*, Arizona 7675
- taxonomy, new species 7675
- Mordellistena unicolor*, hosts, *Eurosta solidaginis* 7568

Morimus funereus

- biology, environmental effects 2986
- Quercus* 2986

Moringa oleifera, *Eupterote mollifera* 6949**Moringa pterygosperma** (see *M. oleifera*)**Mormidea angustata**

- food plants, Puerto Rico 9595
- parasitoids 9596
- rice, Puerto Rico 9596

Morocco

- Cephus* 6701
- conifers, insect pests 5984
- forest trees, pest control 8833
- Gastropoda 10501
- Lepidoptera 1034, 4999
- Lymantria dispar* 10001
- Phloeotribus scarabaeoides* 10735
- Pseudoscorpiones 11281
- Thaumetopoea bonjeani*, parasitoids 7021

Morocide (see Binapacryl)**Morphinae**, taxonomy 5253**Morrenia odorata**, biological control 10517**Morter obscurus**

- biology, phenology 3495
- Nigeria 3495

Morus alba (see Mulberries)**Morus indica**, wood, Isoptera, damage 1794**Morus nigra** (see Mulberries)**Mosses**

- insecticides, residues 8133
- Melaphis rhois* 10522
- Thysanoptera 8205

Moth beans (see *Vigna aconitifolia*)**Moths** (see Heterocera)**Moulting hormones**

- Acheta domesticus* 3327, 10307
- Anastrepha suspensa* 11329
- biochemistry 10308
- Bombyx mori* 1115, 2180, 3320, 3581, 4556, 4564, 9221, 9468, 10310
- Drosophila* 11236
- Drosophila melanogaster* 97, 100, 1117, 2270, 11332, 11354
- Dysdercus cingulatus* 2267
- effects, *Bursaphelenchus xylophilus* 9082
- Galleria mellonella* 11328, 11330, 11970
- Gryllus bimaculatus* 2268
- Gryllus rubens* 4334
- Heliothis virescens* 1295, 7368
- immunoassay 2380
- insecticides, antagonists 11236
- insects 11319
- Lepidoptera 11334
- Leptinotarsa decemlineata* 99
- Lithobius forficatus* 9260
- Locusta migratoria* 11336
- Lymantria dispar* 11339
- Mamestra brassicae* 8255-8256, 11324
- Manduca sexta* 56, 5335, 9247, 9254, 9256, 10309, 11237, 11327
- Mythimna separata* 5303
- Ostrinia nubilalis* 92, 11337, 11341
- Pieris brassicae* 9251
- properties 9248
- Samia cynthia* 1358
- Spodoptera littoralis* 11333
- synthesis 9248
- Tenebrio molitor* 11331
- Trichoplusia ni* 11338

Mowing

effects

- Araneae 11592
- beneficial arthropods 468
- vineyards, arthropods 5714
- grasslands, indicator species 5681

Mozambique, *Macrocyphonistes kolbeanus* 3508**MPP** (see Fenthion)**MTI-500** (see Etofenprox)**MTI-800** (see 5-(4-Fluoro-3-phenoxybenzyl)-2-(4-ethoxyphenyl)-2-methylpentane)**MTMC** (see Metolcarb)**Mucor**, hosts, fruits, insect pests 3113**Mucronata striata**, *Orthezia insignis*, India 3979**Mugho pine** (see *Pinus mugo*)**Mulberries** (*Morus alba* and *M. nigra*)*Bombyx*, USSR 10695

- Mulberries cont.**
Bombyx mori 1557-1558, 2236, 9467-9468, 9677, 11497
 Brazil 539
 India 9676
 mineral deficiencies 6808
 Cerambycidae, China 9678
 cultivation, sericulture 3591
 diets, *Bombyx mori* 4560
Elasmucha putoni, Japan 540
Hishimonus sellatus
 China 11657
 Korea Republic 10739
Hyphantria cunea
 Italy 5960
 USSR 485, 9021
 insect pests 3591
 Lepidoptera, India 2729
Maconellicoccus hirsutus 6457
Neorthacris acuticeps, India 3572
 Noctuidae, India 5726
Priscapalpus piarai, India 6778
Psacotha hilaris, Japan 7729
Pseudodendrothrips mori 6807
- Multimethyl alkenols**, mixtures, control,
Polyphagotarsonemus latus 6957
- Multimethyl alkenol**, mixtures, control,
Tetranychus urticae 3931
- Mung bean yellow mosaic geminivirus**, vectors, *Bemisia tabaci* 1648
- Mung beans** (see *Vigna radiata*)
- Murraya paniculata**
Ceratitis capitata 494
 Hawaii 7897
 extracts, toxicity, *Aleurocanthus woglumi* 1759
- Mus booduga**, insecticides, effects 10128
- Mus musculus**
 insect viruses, interactions 872
 prey, insect pests 872
- Musca**
 India 2705
 strawberries, pollination 2705
- Musca domestica**
 predators 1236, 8348
Velocitermes velox, secretions, toxicity 3578
- Muscidae**
 parasitoids 11466
 USSR 11466
- Muscomorpha**
 Nearctic Region 4225
 taxonomy 4225
- Museum specimens**
 carbon dioxide, effects 1889
Dermestes maculatus 1887
 insect pests 5079
 control
 fumigants 1889
 insecticides 1890
 USSR 1890
 insecticides, residues 1887
Lasioderma serricornis 1886
 pest control 11016
 India 11873
- Museums**
 entomology
 Italy 6249
 USA 6249
 pest control, books 3214
- Mushroom compost**
Heteropeza pygmaea 8668
Pygmephorus, UK 6860
- Mushrooms**
 books 8159
Bradysia tritici, India 599
 Diptera 7765, 9753, 11689
 Netherlands 10758
 New Jersey 11690
 habitats, mites 8988
Heteropeza pygmaea 8668
 insects 4817
 invertebrates, biology 7283
Lycoriella mali 2790
 USA 2792
 pest control, books 7283
 pests, New Jersey 5778
Pygmephorus, UK 6860
- Muskmelons** (see Melons)
- Mussidia nigrivenella**
 maize, Ivory Coast 10594
- Mussidia nigrivenella cont.**
 morphology, larvae 10594
 taxonomy 10594
- Mustard**
 Aphididae, Taiwan 2797
Athalia glabricollis, damage 615
Chromatomyia horticola, India 6871
 fields, *Micraspis discolor*, India 1307
Helicoverpa armigera, India 348
 insecticides, residues 10760
 intercropping, *Cicer arietinum*, pest control 5833
Lipaphis erysimi 614
 India 1626-1628, 2476, 5787, 6872, 6874-6875, 11699-11701
Meligethes aeneus, Poland 8672
 pest control, Bangladesh 6854
Pieris virginiensis, Ohio 3631
- Mustard oil**
 effects
Aphis craccivora 6887
Callosobruchus maculatus 6047, 6052
 toxicity
Sitophilus oryzae 7110
Vigna mungo 6887
- Mustela erminea**, prey, arthropods 8849
- Mutilla yerbburghii**
 hosts, *Chalybion bengalense* 10457
 India 10457
- Mutilla yerburyi** (see *M. yerbburghii*)
- Mutillidae**
Cerceris antipodes, interactions 251
 ecology, water relations 2330
 Kenya 2330
- Muzigadial**, antifeedants, *Pieris brassicae* 2250
- Mycetoglyphus fungivorus**, spinach, Japan 1606
- Mycetophilidae**
 biology, phenology 10915
 New Zealand 4385
 nurseries, British Columbia 10915
 plant pathogens, interactions 10915
 taxonomy 5252
- Mycodiplosis**
 plant pathogens, interactions 11537
 wheat, India 11537
- Mycodiplosis ligulata**
 cocoa, plantations, Costa Rica 3946
 monitoring, traps 3946
 plant oils, attractants 3946
- Mycophila**
 biology, reproduction 10020
 cold resistance 10020
Pleurotus ostreatus, commodities, Japan 10020
- Mycophila speyeri**
 biology 2791
 control 2791
 edible fungi 2791
- Mycoplasma-like organisms**
 detection 7791, 10680
 microscopy 7717
 vectors
 Cicadellidae 1556, 1932, 3785, 7763, 10372, 10680
Dalbulus maidis 10583
Macrosteles striifrons 5565
Nephotettix cincticeps 10608
 sesame, insect pests 1723
- Mycorrhizal fungi**, insecticides, effects 11204
- Myiopharus**
Coronilla varia, habitats, Arkansas 3605
 hosts, *Disonycha punctigera* 3605
- Myiopharus ancillus**
Coronilla varia, habitats, Arkansas 3605
 hosts, *Disonycha punctigera* 3605
- Mylabris phalerata**
Cajanus cajan 10808
 India 5816
 insecticides, toxicity 3842, 10808
 okras, India 3842
- Mylabris pustulata**
 biochemistry, free amino acids 1051
 biology, behaviour 6904
Cajanus cajan, India 6904
 control, insecticides 2827
- Mylabris pustulata cont.**
 genetics, karyotypes 5344
 sampling 6904
Vigna unguiculata, India 2827
- Mylabris thunbergi**, genetics, karyotypes 5344
- Mylloceros viridanus**
 insecticides, pathogenicity 11004
Tectona grandis, India 11004
- Myllocerus**, taxonomy 2969
- Myllocerus coimbatorensis**
 jute, India 2969
 taxonomy, new species 2969
- Myllocerus dalbergiae**
Dalbergia sissoo, India 2969
 taxonomy, new species 2969
- Myllocerus discolor**
 mangoes 4800
 Bangladesh 1594
 plant pathogens, transmission 4800
- Myllocerus discolor var. variegatus** (see *M. discolor*)
- Myllocerus maculosus** (see *M. undecimpustulatus maculosus*)
- Myllocerus mayarami**
Citrus, India 2969
 taxonomy, new species 2969
- Myllocerus menoni**
 food plants, India 2969
 taxonomy, new species 2969
- Myllocerus nigrosuturalis**
 control, insecticides 4766
 peaches, India 4766
- Myllocerus rosae**
 food plants, India 2969
 taxonomy, new species 2969
- Myllocerus undecimpustulatus maculosus**
 taxonomy 2969
Vigna radiata, India 5811
- Mymaridae**
 distribution, New Zealand 6463
 taxonomy 6463
- Mymarommatodea**
 distribution, New Zealand 6464
 taxonomy 6464
- Myochrous armatus**
 biology 4861, 8706
 control, insecticides 4861
 soyabeans, Brazil 4861, 8706
- Myosoma chinensis**
Myosoma nyanzaensis, differentiation 1430
 taxonomy, from *Bracon* 1430
- Myosoma nyanzaensis**
 cereals, fields, Kenya 1430
 hosts, *Chilo partellus* 1430
Myosoma chinensis, differentiation 1430
 taxonomy, new species 1430
- Myrcene**
 attractants
 Coleoptera 822
Dendroctonus ponderosae 5036
 mixtures, attractants, *Hylobius abietis* 8825
- β -Myrcene**, attractants, *Oxycetonia jucunda* 7169
- Myrcia itambensis**
 forests, *Syrphophagus cecidium*, Brazil 1880
 Trioza, galls 1880
- Myrecolacidae**
 biology, behaviour 4447
 hosts, Formicidae 4447
- Myriapoda**
 Canada 3247
 habitats, Peru 8922
 India 12021
 monitoring, traps 2400
 taxonomy, keys 3247
 USSR 2400
- Myrica rubra**, *Fiorinia myricae*, China 3238
- Myrioblephara simplaria**, *Colocasia esculenta*, India 2879
- Myriophyllum spicatum**, *Parapoinx diminutalis* 8430
- Myristic acid**, pheromones, *Adoxophyes orana* 6803
- Myristica fragrans** (see Nutmegs)

- Myrmecixenus*, distribution, Australia 8198
- Myrmecia brevinoda*
biology 5424
behaviour 1226
- Myrmecia gulosa*
biology 5424
behaviour 1226
- Myrmecia pilosula*
biology 5424
behaviour 1226
genetics, cytogenetics 8260
- Myrmecia simillima*
biology 5424
behaviour 1226
- Myrmecocystus*, biochemistry, secretions 5429
- Myrmecozelinae**
biology 11253
evolution 11253
insects, interactions 11253
morphology 11253
taxonomy 11253
USSR, books 11253
- Myrmeleionidae**
distribution, Saudi Arabia 230
ecology 580
olives, orchards, Italy 580
- Myrmica*
biology, behaviour 5437
ecology, population dynamics 7481
Europe 5437
Finland 7481
- Myrmica kotokui*
Japan 9378
morphology 9378
- Myrmica laevinodis* (see *M. rubra*)
- Myrmica pinetorum*
Indiana 7475
taxonomy, new species 7475
- Myrmica rubra*
Belgium 2432
biology, behaviour 2434, 3489, 4456, 6517, 10404, 10409, 10414
distribution, Japan 9378
ecology 2433, 9378
Europe 9378-9379
forests, USSR 2433
insecticides, residues 2432
Maculinea nausithous, interactions 9379
Manica rubida, interactions 10404
morphology 9378
physiology, reproduction 9375
taxonomy 9378
USSR 6517
- Myrmica ruginodis*
Belgium 2432
ecology 2433
Europe 9379
forests
Finland 5054
USSR 2433
insecticides, residues 2432
Maculinea alcon, interactions 9379
Vicia sativa, habitats, UK 1530
- Myrmica ruginodis kotokui* (see *M. kotokui*)
- Myrmica sabuleti*
biology, behaviour 9621
Europe 9379
grasslands, Belgium 9621
Maculinea arion, interactions 9379
- Myrmica scabrinodis*
biochemistry, carbohydrates 9387
biology, behaviour 10414
Europe 9379
France 9387
Maculinea teleius, interactions 9379
pollen, germination 9924
UK 9924
- Myrmica schencki*
biology, behaviour 9621
Europe 9379
grasslands, Belgium 9621
Maculinea rebeli, interactions 9379
- Myrmica spatulata*
Indiana 7475
taxonomy, new species 7475
- Myrmicinae**
biology, behaviour 5427
- Myrmicinae cont.**
ecology, population dynamics 7481
Finland 7481
inhibitors, grasses, germination 1230
South Africa 5427
- Myrmonyssus*, taxonomy, synonyms, of *Myrmozercon* 1025
- Myrmozercon*, taxonomy, synonyms, *Myrmonyssus* 1025
- Myrtaceae**, Curculionidae, Western Australia 11778
- Mystrops costaricensis*
oil palms, pollination 1541
South America 1541
- Mythimna convecta*
food plants, Australia 5583
oats, Victoria 5608
parasitoids 5583
sampling 5608
- Mythimna loreyi*
biology 3654
cereals, China 3654
growth regulators, effects 2272
Italy 9888
kairomones 10456
monitoring, traps 9888
parasitoids 10456
- Mythimna separata*
Asia 5687
biochemistry, proteins 10449
biology 399
migration 2321, 3386, 5370-5371, 5669-5670, 5687
phenology 7653
reproduction 3387-3388
cell lines 3449
China 2321
control
cultural control 645
insecticides 4627, 7653
microbial pesticides 3655
food plants 355
India 7653
forecasting 927
growth regulators, effects 2272, 6213
India 12021
insecticides 5668
effects 9198
Japan 927, 3386-3389, 5370-5371
kairomones 10456
maize, India 399, 11555
monitoring, traps 927, 5687
natural enemies 872
Ochropleura herculea, misidentification 11555
parasitoids 5488, 6548, 10449, 10456
fluids, effects 5302
pastures, Japan 5687
pathogens 5129, 6079
peas, India 645
physiology
endocrine system 5303
enzymes 9198
haemolymph 5302
nutrition 355
senses 3304
rice 5668
India 5654
Japan 3702-3703, 5669-5670
wheat, China 3655, 4627
- Mythimna sequax*
biology 6704
Gramineae, Brazil 5601
natural enemies 5601
wheat 6704
- Mythimna turca*
fruit trees, Korea Republic 3747
monitoring, traps 3747
- Mythimna unipuncta*
antifeedants 5225
biology
behaviour 9312
development 34
reproduction 9292
Colorado 10438
food plants, Oregon 9634
Iowa 9357
monitoring, traps 9357
natural enemies 6536
parasitoids 9634
pathogens 4146-4147, 5129
- Mythimna unipuncta cont.*
pheromones 75
predators 10438
Quebec 6536
- Mythimna venalba*
control, insecticides 11566
rice, India 11566
- Myxophaga**
Australia, catalogues 12032
ecology 12032
taxonomy 12032
keys 10198
USSR 10198
- Myzocallis coryli*
Chile 8985
control, biological control 3772
Europe 3772
hazelnuts, Oregon 3772
pathogens 8985
- Myzocallis pictus*, distribution, India 2967
- Myzocallis walshii*
distribution, France 4033
Quercus rubra 4033
- Myzodes varians* (see *Myzus varians*)
- Myzus**
control, insecticides 2690
Formicidae, interactions 3837
fruit trees, India 3837
fruits, German Democratic Republic 2690
- Myzus antirrhinii*
plant pathogens, transmission 7790
Vicia faba, Syria 7790
- Myzus ascalonicus*
plant pathogens, transmission 1398
strawberries, Norway 10674
weeds, New Zealand 1398
- Myzus cerasi*
Europe 2126
Prunus 2126
taxonomy 2126
- Myzus cerasi cerasi*, food plants, Europe 9694
- Myzus cerasi pruniavium*
Europe 2126
food plants, Europe 9694
Prunus 2126
taxonomy 2126
- Myzus lythri*
plant pathogens, transmission 10830
potatoes, Switzerland 10830
- Myzus nicotianae*
biology, phenology 2933
ecology, population dynamics 10870
herbicides, effects 2933
insecticides, toxicity 6920
plant pathogens 6920
transmission 10873
potatoes, New Brunswick 6920
tobacco 10870
North Carolina 2933, 10873
- Myzus persicae*
Allium ampeloprasum, Japan 9909
antifeedants 996, 3090
asparagus, Michigan 1607
aubergines, Japan 10851
biology 1686, 2894, 7825, 8787, 10853
behaviour 4815, 11371
environmental factors 3908, 6444, 9316
migration 749
phenology 1719, 9827, 10713
biotypes 6444
Brassica, Taiwan 2797
Brassica perviridis 8671
cabbages
Brazil 8676
Indonesia 11695
Capsicum annuum 2894, 5863, 9856, 10852
Scandinavia 6170
USSR 6122
Chinese cabbages 8266
Cicer arietinum 8724
clementines, Spain 9717
cold resistance 8266
control 5236
biological control 6122
cultural control 1746, 7817, 10528
insecticides 695, 702, 1691-1692, 2797, 4874, 5838, 5848, 7818,

- Myzus persicae** *cont.*
control cont.
insecticides *cont.*
8743, 8787, 9833, 10851, 11695
integrated control 8628
microbial pesticides 775
cucumber mosaic cucumovirus, transmission 1745
Cuminum cyminum, India 347, 10528-10529, 11524
Dendranthema morifolium, Brazil 4962
destruxin E, effects 7246
ecology, population dynamics 3399, 5785, 6439, 6486, 9717
Eruca vesicaria, India 1719, 2896
field crops, Hungary 8446
food plants 5770, 5837, 5859
China 749
India 3573, 10853
genetics 1129
German Democratic Republic 11123
greenhouse crops, German Democratic Republic 775
honeydew 5863
Indian mustard, India 2810, 9776-9777
insecticides
effects 1745, 2894, 6170, 10871
pathogenicity 1948
resistance 673, 3090, 3171, 4874, 6157-6158, 7335, 10851
toxicity 6158, 6920
kairomones 5863
kale, USA 5789
lettuces, resistance 1609, 4815, 8667
Lipaphis erysimi, interactions 9777
monitoring, traps 1682, 9717, 11123
Narcissus 7890
natural enemies 5236, 9827
augmentation 5796
parasitoids 257, 2866, 3573, 5789, 5863, 8385, 9740
peach latent mosaic virus, transmission 1568
peaches
Italy 8628
Japan 3803
Pakistan 10713
physiology
enzymes 3277, 7335, 8226
excretion 10976
plant extracts
effects 7565
toxicity 1413
plant pathogens 5837, 6920, 8671, 8705
transmission 702, 1398, 1607, 1614, 1703, 3090, 5770, 5803, 5838, 5841-5842, 5859, 6853, 6915, 7816, 7818, 7890, 8724, 9833, 9846, 9856, 9909, 10787, 10795, 10824-10825, 10830, 10842, 10852, 10871, 11067
plant viruses, transmission 673, 695, 876, 1682
Poland 3399
potatoes 5841, 7816, 7818
Brazil 9827
control, cultural control 10824
Cyprus 2871, 10824
Egypt 7817
India 1686, 1691-1692, 2866, 3908, 5848, 8743
Minnesota 9833
Netherlands 1682
New Brunswick 6915, 6920
Poland 7825
resistance 6917
Switzerland 10830
UK 695, 8739
USSR 702
varietal susceptibility 10825
predators 695, 2810, 3503, 3532, 3803, 8739, 9417, 9447, 9776, 10529, 11524
radishes, South Africa 5796
rape 1614
India 5785
UK 8266
repellents 8676
resurgence 695
- Myzus persicae** *cont.*
Senecio vulgaris 10976
soyabeans, Iraq 8705
Stellaria media, UK 3171
strawberries, Norway 10674
sugarbeet
German Democratic Republic 673
UK 4874, 5838
tobacco 876, 1745, 10871
Cuba 1746
USSR 8787
tomatoes
Japan 9846
Philippines 10842
turnips 1703
vegetables, Afghanistan 6853
Vicia faba
China 10787
India 5803
Vigna unguiculata 10795
weeds, New Zealand 1398
- Myzus varians**
biology 562
control, insecticides 562
morphology 562
peaches, USSR 562
- Nabica subcoleoprata**
prey, *Odontota dorsalis* 5915
Robinia pseudoacacia, forests, Maryland 5915
- Nabidae**
distribution
Afghanistan 6474
Iran 6473
ecology, reviews 2504
insecticides, effects 5820
prey, arthropods 2504
soyabeans, fields, Brazil 5820
taxonomy 3241, 4256, 6473
- Nabis**
biology
behaviour 5819
phenology 8461
lentils, fields, USA 5805
monitoring 8461
prey
Acyrtosiphon pisum 5805
Hemiptera 8461
Plathypena scabra 5819
sampling 5805
soyabeans, fields, Kentucky 5819
wheat, fields, Hungary 8461
- Nabis alternatus**
genetics 3545
grasslands, Utah 3729
prey, Miridae 3729
taxonomy 3545
USA 3545
- Nabis americanoferus**
biology
environmental factors 2449
phenology 10439
ecology, distribution 8710
genetics 3545
legumes, fields, Kentucky 10439
parasitoids 10439
prey 8710
soyabeans, fields, Kentucky 8710
taxonomy 3545
USA 3545
- Nabis capsiformis**
prey, *Anticarsia gemmatilis* 4862
soyabeans, fields, Florida 4862
- Nabis ferus**
ecology, population dynamics 9545, 9611
grasslands, UK 9545, 9611
potatoes, fields, USSR 1696
prey, Hemiptera, predators 1696
- Nabis roseipennis**
biology
behaviour 5819, 7132
environmental factors 2449
phenology 10439
ecology, distribution 8710
genetics 3545
legumes, fields, Kentucky 10439
nuclear polyhedrosis viruses, interactions 7132
parasitoids 10439
prey 8710
- Nabis roseipennis** *cont.*
prey *cont.*
Anticarsia gemmatilis 7132
Plathypena scabra 5819
soyabeans, fields, Kentucky 5819, 8710
taxonomy 3545
USA 3545
- Nabis rufusculus**
biology
environmental factors 2449
phenology 10439
ecology, distribution 8710
legumes, fields, Kentucky 10439
parasitoids 10439
prey 8710
soyabeans, fields, Kentucky 8710
- Nabis sinoferus**
cotton, fields, China 3932
prey, *Helicoverpa armigera* 3932
- Nabis vanduzeei**
grasslands, Utah 3729
prey, Miridae 3729
- Nacoleia diemenalis** (see *Lamprosema diemenalis*)
- Nacoleia vulgaris** (see *Omiodes indicata*)
- Najas guadalupensis**, *Parapoinx diminutalis* 8430
- Nala lividipes**
control, insecticides 10597
maize, Queensland 10597
sampling 4612
soil, Queensland 4612
- Naled** (1,2-dibromo-2,2-dichloroethyl dimethyl phosphate)
control, *Bactrocera dorsalis* 10657
residues, *Brassica* 10760
- Nalidixinic acid**, control, *Serratia liquefaciens* 1963
- Namibia**, Bruchidae 1789
- Nanacarus**
taxonomy 3228
synonyms, *Congovidiella* 3228
- Nanophyes**
India 6994
Tamarix troupil, galls 6994
- Nanophyllium pygmaeum**
distribution, Queensland 1765
Pyraecantha 1765
- Naphthalene**, mixtures, control, Acari 1254
- 1-Naphthol**
effects, nitrogen fixing bacteria 10136
mixtures, toxicity, algae 12003
toxicity, algae 12003
- Napier grass** (see *Pennisetum purpureum*)
- Napomyza gymnotoma**
biology 11751
distribution, Hungary 11751
leeks 11751
morphology, larvae 11751
- Naranga aenescens**
monitoring, traps 7637
predators 8509
rice 7637
China 8509
- Narcissus**, *Myzus persicae* 7890
- Narcissus capensis**, commodities, *Chorizococcus bardus*, South Africa 7085
- Narcissus late season yellows potyvirus**, hosts, *Myzus persicae* 7890
- Nardion**, Acrididae, Spain 2535
- Naringin**, mixtures, attractants, *Papilio protenor* 7750
- Nasdia**, taxonomy, synonyms, of *Allotropa* 5491
- Nasdia prosper**, taxonomy, to *Allotropa* 5491
- Nasonovia ribisnigri**
biology, behaviour 4815
control, insecticides 597
lettuces
British Columbia 597
resistance 1609, 4815
- Nasonovia rostrata**
morphs 2966
Srobilanthes, India 2966
- Nasutitermes**, physiology, secretions 2523
- Nasutitermes corniger**
Guatemala 10485
Phoridae, interactions 10485

- Nasutitermes ephratae*
Peru 1347
physiology, secretions 1347
- Nasutitermes havilandi*, physiology, secretions 2523
- Nasutitermes johoricus*, physiology, secretions 2523
- Nasutitermes longinasus*, physiology, secretions 2523
- Nasutitermes matangensis*, physiology, secretions 2523
- Natural enemies** (see also individual groups of natural enemies)
data banks, catalogues 4237
detection 2453
insects, interactions, models 6588
- Naupactini**, maize, Ecuador 2625
- Nazeeriana angulatus*
Desmostachya bipinnata, Pakistan 2588
taxonomy, new species 2588
- Nazeeriana dirhynchus*
Desmostachya bipinnata, Pakistan 2588
taxonomy, new species 2588
- NC-21314** (see Clofentezine)
- Neacoryphus bicrucis*
biology, reproduction 11505
Senecio anonyms, Georgia 11505
- Nealiolus curculionis*
biology, overwintering 2899
hosts, *Cylindrocopturus adspersus* 2899
sunflowers, fields, North Dakota 2899
- Nearctic Region**
Diptera 4225
Nymphalidae 9155
Rhizophagus 9139
Sphagigaster 212
Trypodendron 5269
- Neargyractis slossonalis*
biology, behaviour 3976
food plants, Florida 3976
morphology 3976
- Neaspilota achilleae*, food plants, California 3635
- Neaspilota aenigma*, food plants, California 3635
- Neaspilota albiseta*, food plants, California 3635
- Neaspilota appendiculata*, food plants, California 3635
- Neaspilota callistigma*, food plants, California 3635
- Neaspilota steckii*, food plants, California 3635
- Neaspilota viridescens*, food plants, California 3635
- Necremnus leucarthros**
hosts, *Oulema lichenis* 4632
wheat, fields, German Federal Republic 4632
- Necrobia rufipes**
biology 4049
phenology 848
fishes, commodities 4049
monitoring, traps 174
rearing techniques 8929
Saudi Arabia 174
- Nectandra**, *Gnathotrupes* 804
- Nectarines** (*Prunus persica* var. *nectarina*)
commodities
Anastrepha suspensa 3074
Cydia pomonella 8965
fumigants, residues 11052
pest control 7115
Frankliniella, Mexico 9716
Lasioderma serricorne 11638
orchards
Amblyseius victoriensis, New South Wales 8631
predatory arthropods, Queensland 8630
Phlyctinus callosus, South Africa 495, 2724
Tetranychus urticae, Queensland 8630
Tortricidae, South Africa 9675
- Nectria coccinea*, vectors, *Cryptococcus fagisuga* 4984
- Nectria coccinea* var. *faginata*, *Cryptococcus fagisuga*, interactions 5927
- Neem extracts**
antifeedants
Clostera cupreata 5919
Eyprepocnemis plorans 190
Noctuidae 10159
Pieris brassicae 611
Spodoptera litura 10798
- control
Cajanus cajan, insect pests 4865
cotton
arthropod pests 6980
insect pests 3934
crops, arthropod pests 1990
groundnuts, insect pests 1671
Helicoverpa armigera 5832, 5834, 7669
insects 352
Liriomyza trifolii 8813
Nephotettix virescens 1468
Ootheca bennigseni 11685
Phthorimaea operculella 1898
Plutella xylostella 6676
Stephanitis pyrioides 8814
Uroleucon carthami 2898
- deterrents, *Diabrotica undecimpunctata* 1414
- effects
Delphacidae 3700
Homoptera 7635
insect pests 5234
insects 3151
Lipaphis erysimi 614
Pieris brassicae 10768
rice 9600
Sitophilus zeamais 4065
Tribolium castaneum 862
insecticidal properties 4228
mixtures, toxicity, *Nephotettix virescens* 9599
mulches, control, Termitidae 7095
nontarget effects 9050
pest control 9050
economics 6676
reviews 1990
preparation 7177
toxicity
Bemisia tabaci 6974
Callosobruchus chinensis 1914
Heteronygmia dissimilis 10944
Homoptera 9600
insect pests 7578
Nephotettix virescens 9599
Noctuidae 7177
Sesamia nonagrioides 10601
Sitophilus zeamais 10028
Spilosoma maculatus 1653
Spodoptera litura 5897
stored products pests 7087
uses, reviews 5580
- Neivamyrmex opacithorax*, morphology, larvae 10399
- Nelumbium speciosum*, *Rhopalosiphum nymphaeae* 3288
- Nematocides**, nontarget effects, *Apis mellifera* 12004
- Nematinae**
biology 7589
cereals, Poland 7589
- Nematocera**
morphology 1042
wings 3261
Nearctic Region 4225
taxonomy 4225
- Nematoda** (see also Entomophilic nematodes)
bacteria, interactions 4155
cultures, *Sancassania ultima*, German Federal Republic 1318
hosts, *Bostryx conspersus* 1371
insect growth regulators, effects 2755
insecticides, effects 2046, 6820
Isoptera, interactions 10482
predators 1344, 1521, 4531, 10639
- Nematus**
biology 512
control 512
Padus racemosa, USSR 4734
parasitoids 4734
red currants, USSR 512
- Nematus ribesii*, currants, Finland 9486
- Nemestrinidae**, hosts, *Praxibulus* 3468
- Nemosema elongatum**
ecology, population dynamics 9938
forests
German Federal Republic 10005
USSR 7065
Israel 9938
prey, Scolytidae 9938, 10005
- Neocacaphyllisa*, taxonomy, new genus 5947
- Neocacaphyllisa lithocarp*
Lithocarpus, China 5947
taxonomy, new species 5947
- Neoapectana**
control, *Scapteriscus* 1519
culture techniques 1922
formulations 1934
fungi, interactions 4127
hosts
invertebrates 8980
Scapteriscus 10079
Scapteriscus vicinus 6761
- Neoapectana bibionis**
control
Cyrtotrachelus longimanus 9518
Reticulitermes 11480
hosts
Agrotis ipsilon 3669
Galleria mellonella 4149, 11911, 11924
insects 1853
Maladera matrida 1764
soil, Finland 6099
taxonomy 11066
ultrastructure 11068
- Neoapectana carpocapsae**
application 4158
biochemistry 11070
control
Agrotis ipsilon 3669
Hepialus 3964
insect pests 4155
Leptinotarsa decemlineata 8738
Ligyrrus subtropicus 4609
Otiorynchus sulcatus 6672
Phyllophaga 1515
Reticulitermes 11480
Scarabaeidae 9626
culture techniques 1922, 8024
development 4100, 11073
entomopathogens, interactions 4100
genetics, genetic improvement 8026
hosts
Amphibia 8979
Ceratitis capitata 1921
Corcyra cephalonica 11088
Cosmopolites sordidus 8027
Diabrotica virgifera 7147
Diptera 7765
Galleria mellonella 4100, 8026, 11072, 11908, 11930, 11943
Holcocerus arenicola var. *insularis* 8983
insect pests 6776
insects 1853, 4129, 5107
Lepidoptera 4158, 6071
Listronotus oregonensis 5121
Maladera matrida 1764
Pyralidae 1922
Scapteriscus borellii 1936
Spodoptera litura 1942
karyotypes 6063
radiation, effects 11088
soil, Finland 6099
synergism 8027
taxonomy 11066
ultrastructure 11068
Xenorhabdus nematophilus, interactions 4155
- Neoapectana feltiae**
control, *Cyrtotrachelus longimanus* 9518
herbicides, effects 11940
hosts
Ascotis selenaria 10070
Galleria mellonella 11911, 11914, 11940
Vespula pensylvanica 5132
taxonomy 11066
- Neoapectana glasei**
control
Cyrtotrachelus longimanus 9518

- Neoplectana glaseri* cont.**
control cont.
 Ligyris subtropicus 4609
 Phyllophaga 1515
hosts
 Adoryphorus couloni 6760
 Galleria mellonella 4609, 11911, 11943
karyotypes 6063
ultrastructure 11068
- Neobellieria bullata***, predators 6579
- Neocerambyx mandarinus***
control, microbial pesticides 1870
forest trees, China 1870
- Neochetina***
biology 10519
control, *Eichhornia crassipes* 10519
- Neochetina bruchi***
control, *Eichhornia crassipes* 3625-3626, 10519
Eichhornia crassipes 4580
India 3625-3626
packaging 8317
pathogens 3626
pollution, effects 4580
- Neochetina eichhorniae***
control, *Eichhornia crassipes* 3626, 8431, 10519
Eichhornia crassipes, damage 6640
herbicides, effects 8431
India 3626
packaging 8317
pathogens 3626
- Neochlamisus platani***
biology 5016
natural enemies 5016
Platanus occidentalis, Maryland 5016
- Neoclytus***, taxonomy 8858
- Neoclytus englemanni***
forest trees, Panama 8858
taxonomy, new species 8858
- Neoclytus rufus***, distribution, Panama 8858
- Neocollyris***, *Nephelium*, Singapore 2775
- Neocurtilla hexadactyla***
biology 4358
phenology 4658
Brazil 4358
crops, Brazil 4658
genetics 5346
monitoring 4358
- Neocypholaelaps***, taxonomy 3493
- Neocypholaelaps indica***
China 4533
distribution, Vietnam 4533
hosts
 Apis cerana 3493
 insects 4533
India 3493
taxonomy 3493
- Neodicrothrix piperiae***
Piper nigrum, India 10738
taxonomy, new species 10738
- Neodiplogrammus quadrivittatus***
control, *Sesbania punicea* 1394
South Africa 1394
- Neodiprion edulicolus***
biology, diapause 8837
Pinus edulis, Arizona 8837
- Neodiprion fulviceps***
biology
 diapause 8837
 environmental factors 9956
Pinus ponderosa 9956
Arizona 8837
- Neodiprion guangxiicus***
biology 2974
China 9954
control
 insecticides 2974
 microbial pesticides 9954
Pinus yunnanensis, China 2974
- Neodiprion lecontei***, pathogens 7923
- Neodiprion merkeli***
biology, behaviour 9978
Pinus 9978
- Neodiprion sertifer***
biology 9944
 environmental factors 3014
control
 insecticides 810
- Neodiprion sertifer* cont.**
control cont.
 microbial pesticides 7066
 Diptera, interactions 5006
 ecology, population dynamics 5978
 Finland 5977
 forest trees
 Sweden 4030
 UK 5034
 forests 1826
 heavy metals
 pollutants 5056
 residues 5977
 monitoring, traps 3015
 morphology 10249
 natural enemies 5006
 pathogens 1826, 5078, 7923
 transmission 4030
 physiology, respiration 1832
- Pinus***
 Sweden 3014
 USSR 810
Pinus contorta, Sweden 3015
Pinus pumila, Japan 9944
Pinus sylvestris 5056, 5977
 Czechoslovakia 5978
 Poland 7066
 Sweden 5078
 USSR 1832
 Sweden 5006
- Neodiprion taedae linearis***
pathogens 5005
Pinus taeda, Arkansas 5005
- Neodontocnemis formosana***
biology 661
forecasting 661
groundnuts, China 661
- Neopipilohmannia***, taxonomy, new genus 2975
- Neopipilohmannia taeda***
Pinus taeda, forests, North Carolina 2975
taxonomy, new species 2975
- Neoeucheyla mumai***
Pinus clausa, habitats, USSR 12017
taxonomy, new species 12017
- Neohydatothrips variabilis***, peaches, Georgia 8634
- Neohydronomus***, taxonomy 7559
- Neohydronomus affinis***
biology 5556
control
 Pistia stratiotes 9492
 evaluation 5556
 Florida 9492
 food plants 5556
 Pistia stratiotes, South America 7559
- Neohydronomus elegans***
Pistia stratiotes, South America 7559
taxonomy, new species 7559
- Neohydronomus pulchellus***
control, *Pistia stratiotes*, evaluation 2569
Pistia stratiotes, South America 7559
South Africa 2569
- Neolasioptera rostrata***
America 3618
Baccharis, galls 3618
parasitoids 3618
taxonomy, new species 3618
- Neoleucinodes elegantalis***
biology, phenology 5860
control, insecticides 3917, 8756-8757
tomatoes
 Brazil 3917, 8756-8757
 Venezuela 5860
- Neolithus fasciatus***
Brazil 1880
parasitoids 1880
Sapium biglandulosum, galls 1880
- Neoparasitylenchus***, hosts, Scolytidae 8848
- Neophilaenus lineatus***
ecology, population dynamics 9545
grasslands, UK 9545
- Neophyllaphis grobleri***
morphology, digestive system 9179
taxonomy 9179
- Neophyllobius inaequalis***
biology 1331
USSR 1331
- Neopolycystus insectifurax***
hosts, *Trachymela tincticollis* 3021
Western Australia 3021
- Neopsocus tunesicus***, *Quercus rotundifolia*, Spain 8830
- Neopynamin** (see Tetramethrin)
- Neoregelia***, seeds, *Camponotus femoratus*, Peru 10402
- Neoron** (see Bromopropylate)
- Neorthacris acuticeps***
mulberries, India 3572
parasitoids 3572
- Neorthacris simulans***, pathogens 9007
- Neoscona arabesca***
cotton, fields, Texas 8777
prey, cotton, insect pests 8777
- Neoscona doeritzi***
biology, behaviour 3691
prey, Delphacidae 3691
rice, fields, Korea Republic 3691
- Neoscona theisi***
biology, nutrition 8349
India 8349
predators 8349
- Neoseiulus anonyms***
attractants 11745
control, *Mononychellus tanajoa*, evaluation 11745
- Neoseiulus californicus***
attractants 11745
control, *Mononychellus tanajoa*, evaluation 11745
genetics, hybridization 9646
morphology 10544
prey, *Oligonychus grypus* 10544
strawberries, habitats, California 9646
sugarcane, plantations, Cuba 10544
- Neoseiulus chilensis***
avocados, habitats, Peru 9646
Citrus, habitats, Chile 9646
genetics, hybridization 9646
- Neoseiulus cucumeris***
biology 9443
carotenoids, effects 4515
control
 Frankliniella occidentalis 3864, 3964, 11786
 Thrips tabaci 5799
 Thysanoptera 3862-3863, 4837
Denmark 3864
ecology, population dynamics 3920
food 4515
greenhouses
 British Columbia 3863
 German Federal Republic 3964
 Netherlands 3862, 3920
 Norway 7157
 Switzerland 5799
Netherlands 3862
ornamental plants, habitats, German Federal Republic 11786
prey
 Dermatophagoides farinae 9443
 Frankliniella occidentalis 7157
 Tetranychus cinnabarinus 1742
 Thysanoptera 3920
rearing techniques 9443
sampling 3862
- Neoseiulus fallacis***
apples
 orchards
 Ontario 4750
 Quebec 8612
biology
 behaviour 11453
 environmental factors 9968
control, Tetranychidae 5694
diets 4497, 8600
orchards, USSR 5694
prey
 Oligonychus pratensis 11453
 Oligonychus ununguis 9968
 Tetranychidae 4750
 Tetranychus cinnabarinus 1742, 8600
rearing techniques 4497, 8600
- Neoseiulus longispinosus***
acaricides, resistance 10882
biology 1293
phenology 8391
insecticides, effects 9900

- Neoseiulus longispinosus* cont.
Korea Republic 8352
prey
 Polyphagotarsonemus latus 8391
 Tetranychus cinnabarinus 1293, 1742
Taiwan 1293
taxonomy 8352
tea, plantations, Japan 9900, 10882
- Neotephritis finalis*
biology 8767
morphology 8767
sunflowers, damage 8767
- Neotermes luykxi*
Florida 3577
taxonomy, new species 3577
- Neotropical Region**
Argentinorhynchus 6638
Cryptostigmata, books 10179
Loncophorus 1027
- Neowroughtonilla*, taxonomy, new genus 4450
- Neowroughtonilla steghausae*
Leptogenys, interactions 4450
taxonomy, new species 4450
- Neozygites*, hosts, Tetranychidae 6092
- Neozygites fresenii*
hosts
 Aphididae 5122
 Aphis spiraeicola 7143
 Uroleucon 4584
- Neozygites fumosa*, hosts, *Phenacoccus manihoti* 2100
- Neozygites lageniformis*, hosts, *Myzocallis coryli* 8985
- Neozygites parvispora*, hosts, *Thrips palmi* 6878
- Nepal**
Agathidium 10004
Dendrothrips 9142
Galerucinae 149
Orthoptera 189, 4412
potatoes, Lepidoptera 3904
Rhizophagus 1820
soyabeans, insect pests 1657
Spilosoma obliqua 3883
- Nepeta faassenii*, *Autographa gamma*, UK 8808
- Nepeta mussinii* (see *N. faassenii*)
- Nephelium*, *Neocollyris*, Singapore 2775
- Nephelodes minians*
Colorado 10438
predators 10438
- Nephila clavipes*
biochemistry, secretions 5296
biology
 reproduction 8381-8382
 survival 9950
Florida 8354
forests, Costa Rica 9950
Louisiana 8381-8382
morphology, spermatheca 4505
prey, *Ceraeochrysa cubana* 8354
- Nephila edulis*, distribution, New Zealand 11436
- Nephopterix eugraphella*
biology 11673
food plants, India 11673
morphology 11673
- Nephotettix**
biology 9582
control
 cultural control 9581
 insecticides 10628
 food plants, Malaysia 8505
 herbicides, effects 8505
 plant pathogens, transmission 9581-9582
 predators 7643, 10612
 rice
 India 7643
 Indonesia 9581-9582
 Japan 10628
 Thailand 10612
- Nephotettix cincticeps**
biology, environmental factors 9592
cell lines, plant viruses, infection 875
ecology, competition 3692
insecticides
 resistance 10110
 toxicity 941, 10110
- Nephotettix cincticeps** cont.
Japan 10110
measurement, feeding 5671
monitoring, traps 7630, 9592
parasitoids 435, 5645
pathogens 11905
physiology, enzymes 8226
plant pathogens, transmission 10608
predators 8509
rice 3692, 7630, 10608
 China 8509, 9592
 Japan 3705, 5645
 resistance 5671, 6725, 7629
 varietal susceptibility 1481
- Nephotettix malayanus**
biology, behaviour 7640
ecology, competition 3692
food plants 7640
natural enemies 10627
plant pathogens, transmission 7640, 10627
rice 3692
 Malaysia 10627
- Nephotettix nigropictus**
biology, behaviour 7640
cell lines, plant viruses, infection 875
control, integrated control 5641
ecology
 competition 3692
 population dynamics 2652, 5653
 food plants 7640
 natural enemies 8514, 10627
 plant pathogens 5653
 transmission 7616, 7640, 10627
 predators 2652
 rice 3692
 India 2652, 5641, 8514
 Malaysia 10627
 Philippines 5653
 resistance 6725
- Nephotettix virescens**
biology 6739
 behaviour 7634, 7640, 9594
 cell lines, plant viruses, infection 875
 control
 insecticides 1464, 2644, 9584
 plant extracts 1468
 ecology
 competition 3692
 distribution 7644
 environmental factors 1475
 population dynamics 2652, 5653
 food plants 6739, 7640
 insecticides, toxicity 9599, 11567
 marking 7634
 monitoring, traps 5648, 10623
 natural enemies 8514, 10627
 parasitoids 7654
 physiology, development 3725
 plant extracts
 effects 7635
 toxicity 9600
 plant pathogens 2644, 5653, 8504
 transmission 1460, 1464-1465, 1468, 7593, 7616, 7640, 9584, 9599, 10609, 10618, 10621-10622, 10625, 10627, 11567
 predators 2652, 7641
 rice 1460, 1465, 1468, 3692, 7635, 7644, 8504, 9584, 9599-9600, 10609, 10618, 10622, 10625, 11567
 India 425, 1475, 1477, 2644, 2652, 5648, 7654, 8514
 Indonesia 1464
 Malaysia 10627
 Philippines 5653, 7634, 10623
 resistance 1459, 1487, 6725, 6741, 9594, 10621
 varietal susceptibility 438, 1482, 5659, 7593
- Nephrolepis acuminata**, *Callopietria floridensis*, India 3961
- Nepovirus** group, vectors, Hemiptera 11062
- Nepticulidae**
distribution, New Zealand 6462
taxonomy 6462
- Neral**, pheromones, mites 8945
- Nereistoxin oxalate**
control, rice, insect pests 8503
effects, mice 8503
- Nerium oleander**
Aphis nerii 10976
Lepidoptera, Guadeloupe 3959
Nipaeococcus filamentosus, Iran 3804
Spilostethus pandurus, Cyprus 784
- α -Neryl propionate**
pheromones, *Quadraspidotus perniciosus* 11311
synthesis 11311
- Neserella**, taxonomy, new genus 10011
- Neserella capreifoliae**
Ficus capraefolia, South Africa 10011
taxonomy, new species 10011
- Neserella decora**
taxonomy, new species 10011
Trema orientalis, South Africa 10011
- Neserella tremae**
taxonomy, new species 10011
Trema orientalis, South Africa 10011
- Nesoclutha pallida**, Gramineae, New Zealand 8526
- Nesolynx**
biology 2971
Eucalyptus, plantations, Brazil 2971, 10914
hosts
 forest pests 10914
 Lepidoptera 2971
- Nesolynx flavipes**
hosts, *Eucelatoria bryani* 2886
tomatoes, fields, India 2886
- Nesolynx thymus**
hosts
 Exorista sorbillans 6558
 Sturmioptis inferens 8452
 rearing techniques 6558
 sugarcane, plantations, India 8452
- Nesolynx zygaenarum**
hosts, *Bessa remota* 2701
Malaysia 2701
- Nesticidae**
morphology 8378
taxonomy 8378
- Nesticoccus sinensis**
bamboos, China 8414
predators 8414
- Nesticus barri**, morphology, colour 9412
- Netherlands**
Acaenitinae 1294
Acetropis gimmerthalii 8303
Acrolepiopsis assectella 7832
Aculus schlechtendali 8614
Agapanthia villosoviridescens 5572
Amblyseius andersoni 11284
Aphididae 1682
apples, mites 10709
aquatic communities, pesticide residues 6201
arable land, arthropods 7271
arthropods 9100
Brachynotocoris puncticornis 8868
Carabidae 7070, 8315, 10447
Cerapteryx graminis, reports 1520
Cicadellidae 8549
Cirsium arvense, natural enemies 1294
crops
 arthropod pests, reports 7297
 pest control 12036
Cryptomyzus 8562
Dendrolimus pini, parasitoids 8903
Drosophila, parasitoids 9673
Empis 6256
Ethmia bipunctella 10534
fields, predatory arthropods 6526
grasslands, invertebrates 5681
greenhouse crops, research, reports 9131
greenhouses, pest control, conferences 4245
Heteroptera 3426, 4415
insects, conservation, books 8163
Lepidoptera 2322, 2359
Liriomyza, parasitoids 4536
mushrooms, Diptera 10758
orchards, pest control 491
Orchesella cincta 10138
Orsillus depressus 1878
Paranthrene tabaniformis 4430
 parasitoids 3020
 pest control 1976
 pesticides, uses 5180

Netherlands cont.

- Pieris rapae* 8680
 plant protection
 conferences 1014
 reports 3145, 4246
Populus canadensis, insect pests 5917
 potatoes, fields, soil arthropods 1694
Psila rosae 3899, 4870, 5840, 8735
Pterostichus 4544
Quercus robur, insect pests 1770
Rhabdophaga deletrix 4000
 Rhopalocera 7424
Salix, pollinators 7042
 soil, growth regulators, residues 8144
 sugarbeet, insect pests 11737
 Thysanoptera, predators 3862, 3920
Trialeurodes vaporariorum 9859
Vicia faba, books 12016
 wheat, insect pests 9532
Yponomeuta, parasitoids 10454
Yponomeuta vigintipunctatus 10265, 10504
Neuroctenus simplex
 distribution, Arkansas 3410
Quercus 3410
Neurohormones
Chrysodeixis chalcites 2220
 genetics, genetic engineering 993
 insects, reviews 993
 pest control 83, 993, 8243
Neuroptera
 apples
 orchards
 India 1561
 Switzerland 2742
 biochemistry, proteinases 8224
 distribution
 Europe 11394
 Sweden 6453
 food, man 1355
 forests, Czechoslovakia 2097
 Italy 3500
 North Carolina 1312
 parasitoids 1312
 prey
 Aphididae 3500
 Aphis pomi 1561
 apples, arthropod pests 2742
 taxonomy 230, 1000, 3255

New Caledonia

- Aenetus* 4993
Arpactophilus 11
Hypothenemus hampei 4955, 10877
Lantana camara, natural enemies 4593
 Scarabaeidae 11596

New Zealand

- Acari, research workers, directories 6232
Acyrtosiphon, parasitoids 1532
Aenetus 4993
 Aphididae 1398, 10551, 10581
 biological control 5158
 cabbages, insect pests 11696
 cereals, insect pests 10553
Cirsium vulgare, arthropods 7558
 Coleoptera 4384
Conoderus exsul 4688
Costelytra zealandica 471, 5221, 6756, 6773, 11597-11598, 11763
Ctenopseustis 7351
Cymbidium, pest control 5913
Dactylosternum 10233
Deroceras reticulatum 309
 Diaspididae 8553
 Diptera 4385
 Encyrtidae, hosts 2124
Epiphyas postvittana 6814, 10700
Eudonia sabulosella 4687
 pathogens 3733
Eutorna phaulocosma, natural enemies 4715
 forest trees, arthropods, predators 8849
 forests
 Coleoptera 9973
 invertebrates 7018
 Gastropoda, predators 7547
 Gramineae, Hemiptera 8526
Hadrobregmus magnus, parasitoids 1335
Hemiberlesia lataniae 11295
Heteronychus arator 470
New Zealand cont.
 Hymenoptera 6464
 insects, forests, habitats 4378
 Lepidoptera 8065
Listronotus bonariensis 469, 1518, 2673, 7681, 10634, 11594, 11600
 marine areas, pollutants 4213
Metopolophium dirhodum, parasitoids 2596
 Mymaridae 6463
Nephila edulis 11436
 Nepticulidae 6462
Odontria striata 466
Panonychus ulmi, predators 552, 6817
Paradoxaphis aristoteliae 4963
 pastures
 Lepidoptera 5685
 slugs 474
Phylacteophaga froggatti, parasitoids 5959
Pison morosum 4472
 plants, Acari 7909
Platypus caviceps 808
Quadraspidiotus ostreaeformis 5719
 roses, pest control 11785
Scolypopa australis, parasitoids 8347, 8559
Sitona discoideus 1531, 10654
 biological control agents 6770
 parasitoids 9641
Solanum muricatum, arthropod pests 9109
Synanthedon tipuliformis 8560
Teleogryllus commodus 467
 Tephritidae 7726
Tetranychus urticae 6785
Thrips nigropilosus 8420
 tomatoes, arthropod pests 10844
Wiseana 6755, 7682
 pathogens 11602
Nexit-fl (see Lindane)
Nezara
 control 2661
 rice
 Bhutan 7642
 Malaysia 2661
 Vigna radiata, Sri Lanka 6888
Nezara antennata
 legumes, Japan 2815
 songs 2815
Nezara viridula
 biology 8702
 flight 9310
 phenology 3656
 reproduction 6386
 Brazil 7346
 control
 biological control 2303, 3744
 insecticides 1666
 crops, Japan 2815
 distribution, India 1478
 ecology
 population dynamics 11729
 reviews 2303
 spatial distribution 3916
 genetics 6386
 growth regulators, effects 4172
 models 1666
 monitoring, traps 9331
 natural enemies 2303
 onions, India 8753
 parasitoids 3744, 6386, 6544
 passion fruits, South Africa 6843
 pathogens 8971
 pheromones 7346
 physiology, nervous system 10285
 Queensland 9310
 rice, Malaysia 3663
 sampling 3916
 songs 2815
 soyabeans 1666
 Brazil 655, 4855
 Florida 11729
 Georgia 658
 Paraguay 3880
 tomatoes 3916
 USA 9331
 Vigna umbellata 8702
 wheat, Brazil 3656
Nicaragua
 Coleoptera 9329

Nicaragua cont.

- Dalbulus maidis* 8493
 foods, insecticide residues 8118
 man, pesticides, safety 7162
 parasitoids 9454
 pest control 2065
 predatory insects 5235
Spodoptera 4848
Spodoptera frugiperda 4639
Nickel
 residues
 Diprionidae 5977
 forest pests 9958
Nicomidae
 bibliographies 7250
 biology 7250
 morphology 7250
 natural enemies 7250
 taxonomy 7250
Nicotiana alata, *Aceratagallia sanguinolenta*, Minnesota 10885
Nicotiana benthamiana
 insecticidal properties 757
Manduca sexta 757
Nicotiana clelandii, *Cyrtopeltis nicotianae* 8785
Nicotiana glutinosa, *Myzus persicae* 5859
Nicotiana gossei
 insecticidal properties 757
Manduca sexta 757
Nicotiana nesophila
 insecticidal properties 757
Manduca sexta 757
Nicotiana repanda
 insecticidal properties 757
Manduca sexta 757
Nicotiana stocktonii
 insecticidal properties 757
Manduca sexta 757
Nicotiana sylvestris, *Manduca sexta*, damage 5898
Nicotiana tabacum (see Tobacco)
Nicotine ((S)-3-(1-methyl-2-pyrrolidinyl)pyridine)
 toxicity, Acari 2880
Nicrophorus defodiens
 biology, behaviour 11367
 carcasses, New Hampshire 11367
Nicrophorus orbicollis
 biology, behaviour 11367
 carcasses, New Hampshire 11367
Nicrophorus sayi
 biology, behaviour 11367
 carcasses, New Hampshire 11367
Nicrophorus tomentosus
 biology, behaviour 11367
 carcasses, New Hampshire 11367
Niesthrea louisianica
Abutilon theophrasti
 damage 6631
 Missouri 5551
 plant pathogens, interactions 6631
Niger
 Acrididae 7300
Aleurocybotus indicus 442
Bruchidius atrolineatus 8004, 10797
Coniesta ignefusalis 420
Eurystylus marginatus 6744
 Scarabaeidae 7469
Nigeria
Aleurocybotus indicus 442
Aphis craccivora 9794
Atherigona palpalis 6680
Bathyoelia thalassina 4947
Callosobruchus maculatus 3061, 8000
Cicadulina 10636
Clavigralla tomentosicollis 3879, 8703
 Coccoidea 2700
Coniesta ignefusalis 420
 crops, insect pests 593
 Isoptera 5508
Maruca testulalis 651
Microtermes 5507
Mononychellus tanajoa 9839
Morter obscurus 3495
Orseolia oryzivora 1476
Parasa viridissima, natural enemies 1542
Phenacoccus manihoti 710
 parasitoids 6936, 11746
Planococcus radicum 7887

Nigeria cont.

- soil fauna 1364
- sorghum, Lepidoptera 1509
- Syllepte derogata* 3843
- yams, commodities, Lepidoptera 6022

Nikkoaspis simaensis

- Bambusoideae, China 3643
- taxonomy, new species 3643

Nikomycins

- effects, *Manduca sexta* 6214
- production, *Bacillus thuringiensis* 7128

Nilaparvata lugens

- Asia 10104
- biology
 - behaviour 3691, 5401, 8506, 8508, 9589, 10337
 - circadian rhythm 9192
 - development 31, 7419, 7529
 - environmental factors 4664, 9592
 - migration 5643, 10620, 11374
 - phenology 4659, 9585
 - reproduction 6167

biotypes 8513

- China 3163, 10620
- control 2661, 6722
 - biological control 7703
 - cultural control 1473
 - insecticides 422, 3163, 4670, 6723, 10109, 10628

East China Sea 2394**ecology**

- distribution 7644
- environmental factors 1475, 2659
- population dynamics 2652, 3697
- Enterobacter*, symbiosis 3104
- feeding, determination 5401
- fertilizers, effects 2653, 11570
- food plants 9589
 - Malaysia 8505
- forecasting 2659
- genetics, chromosome number 1132
- growth regulators, effects 6215, 7230
- herbicides, effects 8505
- insecticides
 - effects 6167
 - pathogenicity 4099, 6083
 - resistance 7179, 10103
 - toxicity 941, 10104, 10110

Japan 9585, 10103

- monitoring, traps 5648, 9585, 9592, 10623, 11374
- morphology 6343
- natural enemies 1463, 3163, 3697, 4661, 8514
- parasitoids 10626
- pathogens 1479, 6731, 7618, 11905
- physiology
 - bioenergetics 11437
 - enzymes 8226
 - secretions 5671

plant extracts

- effects 3700, 7635, 8506
- toxicity 9600

plant oils, effects 8508

- plant pathogens, transmission 9580, 11563
- plant viruses 1461

predators 256, 445, 2652, 3691, 4659,

- 4663, 5666, 7516, 7529, 7641, 7643, 10612, 10617, 10629, 11437, 11578, 11581

rice 6723, 7635, 7644, 8506, 9600,

- 10617, 11563, 11578, 11581
- Asia 10109
- China 3697, 4663, 7703, 9592, 10629
- India 422, 1471, 1475, 1477, 2652-2653, 4659, 4661, 5648, 5660, 6726, 7643, 8514, 10626, 11570
- Indonesia 1463, 6722
- Japan 5643, 10628
- Korea Republic 451, 1473, 3691, 4670, 7618
- Malaysia 2661, 3663
- Philippines 445, 5666, 7632, 8513, 9580, 10623
- resistance 448, 1485-1486, 1488, 6725, 7623, 7627-7628, 7650, 11558
- Taiwan 2659, 4664

Nilaparvata lugens cont.**rice cont.**

- Thailand 10612
- varietal susceptibility 7619
- Vietnam 10630
- sampling 1206, 2394
- songs 3274
- symbionts 4661
 - antimicrobial properties 3104
- Taiwan 11374

Nilotaspis halli

- control, insecticides 488
- fruit trees, Israel 488

Nineta flava, biology, development 2477**Nineta pallida**, biology, development 2477**Nipaeccoccus filamentosus**

- control, biological control 3804
- food plants, Iran 3804

Nipaeccoccus graminus

- grapes, South Africa 3509
- parasitoids 3509

Niphona furcata

- bamboos, China 1420
- biology 1420
- control, insecticides 1420

Nisotra

- pathogens 5104
- Senegal 5104

Nitidulidae

- Ceratocystis fagacearum*, transmission 5064
- control, cultural control 6045
- distribution, Saudi Arabia 143
- figs, California 6045

Nitrofen, control, *Cydia pomonella* 544**Nitrogen**

- control, museum specimens, insect pests 5079
- effects, *Bactrocera cucurbitae* 2395

Nitrogen fertilizers

- control, *Costelytra zealandica* 6756
- effects
 - Aradus cinnamomeus* 1784
 - Atherigona soccata* 1495
 - Eldana saccharina* 5590
 - Helicoverpa zea* 9548
 - insects 7247
 - Ips calligraphus* 10044
 - Lipaphis erysimi* 11699
 - Listronotus bonariensis* 469
 - Nilaparvata lugens* 11570
 - oranges, arthropod pests 8649
 - Ostrinia nubilalis* 4642
 - Pectinophora gossypiella* 6973
 - Pieris rapae* 9771
 - rice, insect pests 2653, 7648
 - Schizaphis graminum* 1506
 - Sogatella furcifera* 2656
 - Spodoptera eridania* 8536
 - Spodoptera frugiperda* 8480, 8502
 - Tetranychus cucurbitacearum* 654
 - Tetranychus urticae* 11714
 - Tyria jacobaeae* 3624
 - mixtures, effects, *Atherigona soccata* 1495

Nitrogen fixing bacteria, Sphaerothermes

- sphaerothermes*, interactions 9460

(E)-1-Nitropentadecene, secretions, *Prorhinotermes flavus* 8230**p-Nitrophenol**, degradation, *Pseudomonas* 11216**p-Nitrophenol**

- residues
 - determination 9349
 - water 9349

Noctua comes

- monitoring, traps 9888
- tobacco, Italy 9888

Noctua fimbriata, biology, polymorphism 10326**Noctua pronuba**

- insecticides, effects 10095
- monitoring, traps 9888
- physiology, senses 3318
- plants, UK 10095
- tobacco, Italy 9888

Noctuidae

- biology 7611, 10201
- behaviour 5374
- environmental factors 926
- phenology 1588, 9799

Noctuidae cont.

- carnations, Hawaii 9910
- chicory, Italy 4816
- control 7611, 10603
 - insecticides 6007, 10602, 11715
- crops, Spain 1373
- distribution
 - Asia 5383
 - Italy 8288
- ecology 6466
 - ecosystems 2341
 - population dynamics 4408
- field crops, Spain 9440
- fire, effects 7670
- food plants, Australia 5583
- French Guiana 11075
- grasslands, Utah 7670
- Italy 9888
- Maine 10430
- maize
 - Benin 10602
 - Italy 7611
 - tropics 10603
- monitoring, traps 926, 1588, 7670, 9888
- morphology, larvae 10201
- natural enemies 9440, 10603
- parasitoids 5583
- pathogens 11075
- peas, Hungary 11715
- pheromones, reviews 11306
- Poland 6466
- predators 3556, 10430
- Pseudotsuga menziesii*, California 6007
- Saudi Arabia 144
- soybeans, Japan 9799
- Spain 1588
- taxonomy 144, 10201
- Texas 3556
- UK 926
- USSR 2341, 5374
 - books 10201
- Noctuidonema guyanense*, hosts, Lepidoptera 11075
- Noctuoidae**, morphology 6274
- Nodaviridae**
 - hosts, *Drosophila*, cell lines 1944
 - proteins 1944
- Nolina microcarpa*, *Mordellistena tetraspilota*, Arizona 7675
- Nomada**
 - hosts, *Andrena* 3226
 - taxonomy 3226
- Nomadacris septemfasciata* (see *Patanga septemfasciata*)
- Nominine**, effects, *Helicoverpa zea* 4182
- Nomophila noctuella**
 - China 8037
 - pathogens 8037
- Nomuraea anemonoides*, hosts, Noctuidae 4130
- Nomuraea atypicola*, hosts, Noctuidae 4130
- Nomuraea rileyi*
 - alkanes, utilization 1961
 - allelochemicals, effects 11086
 - culture techniques 1945
 - enzymes 1945
 - germination 894, 8986
 - hosts
 - Anticarsia gemmatilis* 1945, 6095
 - Helicoverpa zea* 11086
 - insect pests 894
 - Noctuidae 4130, 9807
 - Spodoptera frugiperda* 4634
 - Trichoplusia ni* 4131
- Nonachlor**, residues, human milk 2018
- (3Z,6Z,9Z)-3,6,9-Nonadecatriene**, pheromones, Geometridae 10277
- Nonagria typhae*, distribution, Italy 9336
- Nonanal**
 - attractants, *Oryzaephilus* 8153
 - pheromones, *Oryzaephilus surinamensis* 857
- 2-Nonanone**, attractants, *Rhagoletis mendax* 508
- Nordihydroguaiaretic acid**
 - mixtures, effects, *Trichoplusia ni* 9049
 - toxicity, *Ligurotettix coquillettii* 6677
- Norfolk Island**
 - aquatic insects, catalogues 12031

Norfolk Island cont.

- Orthoptera 191
- Norhaman**, effects, *Heliconiini* 1097
- Normanicone**, mixtures, pheromones, *Manica rubida* 1234
- North Africa**, *Danaus chrysippus* 1180
- North America**
 - Acarapis woodi*, conferences 11271
 - Acari 9157
 - Acyrtosiphon pisum*, parasitoids 2451
 - Aderidae 11816
 - Aleocharinae 10243
 - Anthonomus* 8201
 - Aphididae 1421, 5386
 - Apionidae 157
 - Apis mellifera* 11454
 - Arachnida 9156
 - Araneae 4025
 - arthropods
 - immigration 6467, 6495
 - taxonomy, conferences 10213
 - Blastobasidae 5393
 - botanical insecticides, usage 4228
 - Braconinae 9451
 - Centaurea*
 - biological control agents 5558
 - natural enemies 8191
 - Centaurea diffusa*, natural enemies 2570
 - Centaurea maculosa*, natural enemies 2570
 - Ceratopogonidae 9299
 - Chionaspis* 3248, 3262
 - Choristoneura* 7029
 - Cicindelidae 2315
 - Coleoptera 9166
 - Collembola 9158
 - Curculionidae 9
 - Delia coarctata* 6457
 - Dendroctonus frontalis* 7949
 - Derodontidae 3419
 - Descarpentriesia* 9149
 - Diodontus* 4255
 - Dioryctria* 5935
 - Diptera 9167
 - Entedon* 3557
 - Entomoscelis americana* 9744
 - Euphorbia esula*, biological control agents 4586
 - Formicidae 11420
 - Hemiptera 9163
 - Homoptera 9164
 - Hyadaphis tataricae* 1763
 - Hymenoptera 9437
 - insect pests, maps 6456, 6460
 - insects, fauna, conferences 4241
 - Lepidoptera 9168
 - Lymantria dispar* 7956
 - reviews 7944
 - Micromus* 3528
 - Micropeplus* 9960
 - Myriapoda 3247
 - Orius* 7513
 - ornamental woody plants, pests, books 8167
 - Ostrinia nubilalis*, reviews 6713
 - Papilio* 6661
 - pest control
 - information 5152
 - microbial pesticides 1019
 - Phasmatodea 9160
 - Pimpla disparis*, hosts 11815
 - Pissodes*, natural enemies 6000
 - Psocoptera 9162
 - Pterostichini 8215
 - Rhagoletis mendax*, natural enemies 3764
 - Rhopalocera 9297
 - Saltatoria 9345
 - Scolytidae 7046
 - Stelidota* 11291
 - Thysanoptera 9165
 - Thysanura 9159
 - Vesputia germanica* 7428
 - Vitula edmandsii* 4084
 - Zootermopsis* 6602
- North Korea** (see Korea Democratic People's Republic)
- North Sea**, fishes, pesticide residues 11993
- Norway**
 - Aleyrodidae 8809

Norway cont.

- Aleyrodidae cont.
 - parasitoids 10902
- Carabidae 4391, 10347
- Cerambycidae 11264
- Chromatomyia fuscata* 5610
- chrysanthemums, insect pests 8811
- Coleoptera 7037
- Delia fabricii* 4680
- Dolycoris baccarum* 4362
- entomology, conferences 4243
- Epirrita autumnata* 10003
- Frankliniella occidentalis* 3956, 3960, 7006
 - predators 7157
- Geometridae 7033
- greenhouse crops
 - arthropod pests 6170, 10750
 - insect pests 8810
 - pest control 6876, 6944
- insecticides, testing 8071
- Ips typographus* 8918, 9982, 11840-11841, 11850, 11853
- Lepidoptera 4392, 7068
- Mamestra brassicae* 3851
- Monochamus sutor* 1819
- pest control, spraying equipment 7251
- Pipunculidae 4491
- Psylloidea 4390
- Sciomyzidae 4393
- Scolytidae 11848
- Siricoidea 1192
- strawberries, Aphididae 10674
- Trypodendron* 1872
- Trypodendron lineatum*, predators 2990
- Norway spruce** (see *Picea abies*)
- Nosema**
 - control 8023
 - Lymantria dispar* 1834, 4009, 5981
- hosts
 - Anacridium rubrispinum* 5052
 - Bombyx mori* 11087
 - insects 5104, 7126, 8023
 - Lepidoptera 4142
 - Lymantria dispar* 4112
 - Ostrinia nubilalis* 890
 - stored products pests 7097
 - pathogenicity, *Spodoptera* 1939
 - pest control 7097
 - reviews 7097
- Nosema acridophagus*, hosts, *Scapteriscus* 1519
- Nosema algerae*
 - germination 1956, 1959
 - hosts, *Helicoverpa zea* 1956, 5139
- Nosema bombycis*
 - culture techniques 7145
- hosts
 - Bombyx mori* 4562, 9474, 10488
 - silkworms, cell lines 7145
- Nosema costelytrae*, hosts, *Wiseana* 11602
- Nosema cuneatum*, hosts, *Scapteriscus* 1519
- Nosema fumiferanae*
 - Bacillus thuringiensis*, interactions 10068
 - hosts, *Choristoneura fumiferana* 5025, 8042, 10068
- Nosema furnacalis*
 - culture techniques 4108
- hosts
 - insects 8037
 - Ostrinia furnacalis* 4108
- Nosema galerucellae*, hosts, *Pyrrhalta luteola* 5926
- Nosema infuscatellus*, hosts, Lepidoptera 4562
- Nosema kingi*, hosts, *Drosophila melanogaster* 6086
- Nosema lepturae*, hosts, Coleoptera 5104
- Nosema locustae*
 - control, Acrididae 3479, 8660
 - germination 11927
 - hosts, *Scapteriscus* 1519
- Nosema lymantriae*, control, *Lymantria dispar* 4032
- Nosema medinalis*
 - hosts
 - Chaphalocrocis medinalis* 10073
 - insects 8037

Nosema mesnili

- hosts
 - Pieris brassicae* 8990
 - Spodoptera litura* 8039
- Nosema nisotrae*, hosts, *Nisotra* 5104
- Nosema phyllotretae*, hosts, Coleoptera 5104
- Nosema pyrausta*
 - effects, *Chrysoperla carnea* 3547
 - hosts, *Ostrinia nubilalis* 890, 1314, 3547, 4654, 5127, 5614, 11939
 - Trichogramma nubilale*, interactions 1314
- Nosema scotyli*, hosts, Coleoptera 5104
- Nosema tracheophilum*, hosts, Coleoptera 5104
- Nosema typographi*, hosts, Coleoptera 5104
- Nostoc linckia**
 - insecticides
 - effects 11214
 - toxicity 12003
- Notacaphylla*, taxonomy, new genus 2774
- Notacaphylla chinensiae*
 - Litchi chinensis*, India 2774
 - taxonomy, new species 2774
- Notaceria tetrandiae*
 - Cordia tetrandia*, Guyana 11827
 - taxonomy, new species 11827
- Nothofagus dombeyi*, *Silviella*, Chile 2146
- Nothofagus pumilio*, forests, arthropods, Chile 5029
- Nothofagus solandri*, *Platypus caviceps*, New Zealand 808
- Nothoserphus afissae*
 - hosts, *Epilachna vigintioctomaculata* 3914
 - Solanum*, fields, Korea Republic 3914
- Notiophilus biguttatus*
 - biology, behaviour 3518
 - predators 3518
- Notiphila**
 - Australia 4
 - taxonomy 4
- Notocelia rosaecolana* (see *Epiblema rosaecolana*)
- Notocelia uddmanniana* (see *Epiblema uddmanniana*)
- Notodonta dromedarius*
 - distribution, Italy 9336
 - Spain 1178
- Notodonta ziczac* (see *Eligmodonta ziczac*)
- Notodontidae**
 - distribution, Spain 6218
 - French Guiana 11075
 - morphology, mouthparts 7322
 - pathogens 11075
- Notodusmetia*
 - hosts, Pseudococcidae 2124
 - New Zealand 2124
 - taxonomy, new genus 2124
- Notonecta glauca*
 - biology 2260
 - Czechoslovakia 2260
 - morphology 2260
 - physiology, reproductive organs 2260
- Notostira elongata*
 - ecology, population dynamics 9545, 9611
 - grasslands, UK 9545, 9611
- Notostrix jamaicae*
 - biology 8550
 - coconuts, Costa Rica 8550
 - morphology 8550
- Notoxus**
 - prey, *Datana integerrima* 2717
 - walnuts, orchards, Mexico 2717
- Nuclear energy**, effects, *Drosophila* 7722
- Nuclear polyhedrosis viruses**
 - characterization 881, 7149, 10064
 - cold storage 1952
 - control
 - Helicoverpa armigera* 739, 2907, 7669
 - Lymantria dispar* 2998, 4032, 5940, 7954, 11824
 - Neodiprion sertifer* 7066
 - Orgyia pseudotsugata* 7917
 - Panolis flammea* 5964
 - Papilio xuthus* 8035

Nuclear polyhedrosis viruses cont.

- culture techniques 6604, 7133, 8798, 10061
- detection 3087, 4014
- dispersal 9805
- environmental factors, effects 4122
- enzymes 892, 4094
 - production 11108-11109
- formulations
 - adjuvants 9004
 - protectants 5964, 6097
- fungicides, effects 9009
- genetics 8007
 - gene expression 9000, 10081, 11092
 - gene mapping 11080
 - genes 2177, 11091, 11093, 11101
 - DNA 4559
 - nucleotide sequences 4106
 - genetic engineering 3590, 7133, 8991, 11108-11109
 - genomes 11106
 - recombinant DNA 6060
- Glabromicroplitis croceipes*, interactions 4503
- hosts
 - Agrotis ipsilon* 8041
 - Agrotis segetum* 877
 - Antheraea pernyi* 4113
 - Anticarsia gemmatilis* 7132, 9802
 - cell lines 4095
 - Autographa californica* 1949, 3128, 4101, 4118, 4124, 5120, 5308, 6091, 8036, 8991, 10081, 11093, 11103-11104, 11920
 - Bombyx mori* 3590, 4559, 6090, 6604-6605, 6609, 7542-7543, 11080
 - cell lines 9469, 10061
 - resistance 10487
 - Buzura suppressaria* 3087
 - Cephalcia abietis* 7904
 - Choristoneura fumiferana* 4014
 - Choristoneura occidentalis* 8863
 - Ectropis obliqua* 8798
 - Euproctis lunata* 9861
 - Eutorna phaulocosma* 4715
 - Helicoverpa armigera* 1280, 5131, 5622, 6082, 6710, 7881, 9004, 9008, 10059
 - Helicoverpa zea* 5111, 7139, 8758
 - Heliothis virescens* 4122, 4503
 - Hyblaea pueria* 1838
 - insect pests 872
 - insects 8015
 - Lepidoptera 117, 4094, 4102, 4109, 4115, 4150, 6088, 6745, 7152, 7232, 9881, 10064, 11934
 - cell lines 4140
 - Lymantria dispar* 892, 3006, 4106, 5112, 6093, 6097, 7024, 7959, 8883, 9970, 10002, 11064
 - Mamestra* 11926
 - Mamestra brassicae* 11906
 - cell lines 11089
 - Mythimna* 5129
 - Mythimna unipuncta* 4146
 - Neodiprion sertifer* 4030, 5006, 5078
 - Neodiprion taedae* 5005
 - Noctuidae 891, 1952, 2177, 4090, 4119, 4134-4136, 4148, 5109, 5113, 6060, 6074-6076, 6078-6079, 7133-7134, 7149, 8045, 9000, 9805, 9807, 10802, 11091, 11105-11106, 11108-11109
 - cell lines 11090, 11097, 11107
 - Orgyia pseudotsugata* 4137, 11092, 11101
 - Ostrinia nubilalis* 890
 - Panolis flammea* 3040, 5077
 - Pelopidas mathias* 6733
 - Pieris rapae*, cell lines 1957
 - Spilosoma obliqua* 1953
 - Spodoptera exigua* 888, 4100
 - Spodoptera frugiperda* 6084, 6709, 9547, 11919
 - cell lines 1955, 4101, 5308, 10081
 - Spodoptera littoralis* 887, 5140

Nuclear polyhedrosis viruses cont.

- hosts cont.
 - Spodoptera litura* 880-881, 5119, 9009, 10075
 - Spodoptera mauritia* 9003
 - Tenthredinoidea 1826
 - Tipula paludosa* 4093
 - Trichoplusia ni* 5133, 11937
- identification 4148
- insecticides, effects 11824
- microscopy 11096
- mixtures
 - effects
 - Agrotis ipsilon* 8041
 - Lepidoptera 9054
 - toxicity
 - Helicoverpa armigera* 5131
 - Spilosoma obliqua* 1953
- morphology 880
- moulting hormones, effects 7542
- Nabis roseipennis*, interactions 7132
- Neoplectana carpocapsae*, interactions 4100
- Nosema*, *Lydella thompsoni*, interactions 890
- Nosema pyrausta*, *Lydella thompsoni*, interactions 890
- persistence 9003, 9802, 9881
 - field crops 5622
- physicochemical properties 4124
- plant extracts, effects 8758, 8883
- production 7139
- replication 9469
- residues, water 6182
- synergism 4146, 9054
- titration 6604
- vertebrates, interactions 872
- zinc chloride, effects 1949
- Nudrin** (see Methomyl)
- Nurelle D 505** (see Chlorpyrifos, with cypermethrin)
- Nurseries**
 - arthropod pests, British Columbia 10912
 - Diptera, British Columbia 10915
 - Scarabaeoidea, China 1873
- Nusalala uruguayana**
 - biology 9718
 - prey, Aphididae 9718
- Nut crops**
 - Acari, damage 2694
 - arthropod pests, control, pesticides 11115-11116
 - pest control, Australia 9132
 - Sarawak, reports 7299
- Nutmegs**, extracts, toxicity, Coleoptera 1415
- Nuvacron** (see Monocrotophos)
- Nuvan** (see Dichlorvos)
- Nyctaginaceae**, *Catorhintha*, America 349
- Nyctalus noctula**
 - forests, Hungary 8851
 - prey, *Dendrolimus pini* 8851
- Nyereria rageshri**
 - hosts, Lepidoptera 3239
 - India 3239
 - taxonomy, new species 3239
- Nymphaea**, *Argentinorhynchus kuscheli*, Bolivia 7552
- Nymphaea alba**, *Galerucella nymphaeae*, Italy 8021
- Nymphalidae**
 - biology, polymorphism 10326
 - British Isles 1003
 - distribution
 - Afghanistan 8302
 - British Columbia 10361
 - Europe 4413
 - India 7443
 - Switzerland 159
 - food plants 6424
 - morphology
 - legs 1049
 - nervous system 24
 - pheromones 6424
 - phylogeny 1049
 - physiology, pigments 1074
 - predators 3556
 - semiochemicals, effects 6424
 - taxonomy 1003, 4413, 5253-5254
 - Texas 3556

Nymphalinae, taxonomy 5253

- Nymphalis**
 - Nearctic Region 9155
 - Palearctic Region 9155
 - taxonomy 9155
- Nymphalis antiopa**
 - Nearctic Region 9155
 - Palearctic Region 9155
 - taxonomy 9155
- Nymphalis milberti**
 - California 2151
 - evolution 2151
- Nymphalis polychloros**
 - biology 1824
 - forest trees, Spain 1824
- Nymphidium lisimon attenuatum**
 - Inga, Brazil 4004
 - morphology, larvae 4004
 - Wasmannia auropunctata*, interactions 4004
- Nymphoides cristatum**, *Parapoinx diminutalis*, India 1405
- Nymphula**
 - aquatic plants, German Democratic Republic 4262
 - taxonomy 4262
- Nymphula depunctalis** (see *Parapoinx stagnalis*)
- Nyphasia apicalis**
 - biology 1816
 - forest trees, India 1816
- Nysius**
 - control, cultural control 1657
 - sampling 1657
 - soybeans, Nepal 1657
- Nysius plebius**, distribution, Korea Republic 1188
- Nyssa aquatica**, *Malacosoma disstria* 5049
- Nyssa sylvatica**, *Popillia japonica* 11820
- Nystatin**, effects, *Beauveria bassiana* 878
- Oak** (see *Quercus*)
- Oats** (*Avena sativa*)
 - Agrotis ipsilon*, Ontario 4168
 - Aphididae 1428, 10550, 10576
 - food preferences 9544
 - German Democratic Republic 10579
 - New Zealand 10551
 - Syria 5596
 - arthropod pests, Italy 11636
 - commodities
 - Coleoptera, German Federal Republic 3049
 - mites, Manitoba 11876
 - Oryzaephilus surinamensis* 857
 - Psocoptera, Manitoba 1902
- fields
 - beneficial insects, Finland 10577
 - Carabidae, Ohio 10963
 - parasitoids, Brazil 5601
- Graminella nigrifrons** 11528
- insect pests
 - Finland 1440
 - New Zealand 10553
- insecticides, effects 2605
- intercropping, *Vicia faba*, pest control 1440
- Mayetiola destructor**, Kansas 7588
- Melanoplus sanguinipes** 4440
- Nilaparvata lugens** 9589
- Noctuidae
 - Brazil 5601
 - Victoria 5608
- oils, attractants, *Trogoderma granarium* 4424
- pest control, USSR 395
- pests, UK 10190
- Rhopalosiphum**, Queensland 1429
- Rhopalosiphum padi** 2605, 3084
 - Finland 10577
 - resistance 1446
- Spilosoma obliqua*, India 1647
- Oberea**, *Euphorbia esula*, China 4582
- Oberea brevis** (see *Obereopsis brevis*)
- Oberea erythrocephala**
 - Euphorbia esula*, China 4582
 - Euphorbia* 8415
 - parasitoids 8415
- Obereopsis brevis**
 - control, cultural control 4854
 - food plants, India 6881

Obereopsis brevis *cont.*
soyabeans, India 4854

Occidryas anicia
genetics, population genetics 1140
taxonomy, synonyms, of *Occidryas chalcadona* 1140
USA 1140

Occidryas chalcadona
Besseyia plantaginea, Colorado 9913
biochemistry, iridoids 9913
ecology, distribution 6628
food plants, Colorado 6628
genetics, population genetics 1140
taxonomy, synonyms, *Occidryas anicia* 1140
USA 1140

Occidryas colon
genetics, population genetics 1140
taxonomy, synonyms, of *Occidryas chalcadona* 1140
USA 1140

Occidryas editha
biology, behaviour 2320, 3374, 5555
California 3374
Colorado 2320
Nevada 7332
Pedicularis semibarbata, California 5555
predators 7332

Occidryas editha bayensis
California 3457
ecology, dispersal 2366
marking, effects 3457
Plantago erecta, California 2366

Oceania
Agonoxena argaula, parasitoids 3758
Cicadoidea, books 10239
Dacinae 13
Diptera, books 3219
Scolytidae 3230
Tarophagus 3910

Ochetomyrmex auropunctatus
attractants 9383
biology 4948
reproduction 9392
cocoa, plantations, Brazil 4948
crops, Cuba 10880
diets 9383
prey, *Forcypomyia* 4948
rearing techniques 9383

Ochratoxin A, toxicity, Noctuidae 4174

Ochratoxins, effects, Noctuidae 10165

Ochropleura fennica
conifers 10925
British Columbia 10911
control 10911
parasitoids 10925
physiology, pheromones 9209

Ochropleura flammata, *Cicer arietinum*, India 2853

Ochropleura herculea, *Mythimna separata*, misidentification 11555

Ochsenheimeriidae
biology 1006
Gramineae 1006
taxonomy 1006
USSR, books 1006

(E)-β-Ocimene, attractants, Phytoseiidae 7794

Ocimum basilicum
insecticides, residues 1407
oils, repellents, *Aulacophora foveicollis* 10535
Scutacaridae, Egypt 2577
volatile compounds, effects, *Earias vittella* 4185

Ocimum sanctum
extracts
antifeedants, *Anomis sabulifera* 11238
insecticidal properties 9041
toxicity, Aphididae 1413

Ocnogyna lowii
Iraq 1205
monitoring, traps 1205

Octachlorodipropyl ether, synergism 10106

(2E,13Z)-2,13-Octadecadien-1-ol, attractants, *Osminia ruficornis* 8875

(2E,13Z)-2,13-Octadecadien-1-ol acetate, mixtures, pheromones, *Synanthedon tipuliformis* 8560

(3E,13Z)-3,13-Octadecadien-1-ol acetate, mixtures, pheromones, *Synanthedon tipuliformis* 8560

(3Z,13Z)-3,13-Octadecadien-1-ol acetate, mixtures, pheromones, *Synanthedon tipuliformis* 8560

(3E,13Z)-3,13-Octadecadien-1-ol, mixtures, attractants, *Sesia spartani* 14

(3Z,13Z)-3,13-Octadecadien-1-ol mixtures
attractants, *Sesia spartani* 14
pheromones, *Synanthedon tipuliformis* 8560
pheromones, *Sphecia sinigensis* 8834

(2E,13Z)-2,13-Octadecadienyl acetate mixtures
attractants
Paranthrene asilipennis 8875
Sesiidae 8875

(3E,13Z)-3,13-Octadecadienyl acetate pheromones, *Synanthedon* 10691
synthesis 10691

(3Z,13Z)-3,13-Octadecadienyl acetate, synthesis 10691

(3Z,13Z)-3,13-Octadecadienyl acetate, mixtures, attractants, Sesiidae 8875

(3Z,13Z)-3,13-Octadecadienyl acetate, pheromones, *Synanthedon* 10691

(Z)-13-Octadecen-1-ol acetate, mixtures, pheromones, *Synanthedon tipuliformis* 8560

(Z)-11-Octadecenyl acetate, pheromones, *Drosophila* 68, 1083

(Z)-13-Octadecenyl acetate, mixtures, attractants, *Paranthrene asilipennis* 8875

Octanal, attractants, *Oryzaephilus* 8153

3-Octanone, pheromones, *Oryzaephilus surinamensis* 857

1-Octen-3-ol
pheromones, *Oryzaephilus surinamensis* 857
repellents, *Xylocleptes bispinus* 1377

(R)-1-Octen-3-ol, pheromones, *Oryzaephilus* 4056

(R)-(-)-1-Octen-3-ol, mixtures, pheromones, *Oryzaephilus* 9207

Octopamine, invertebrates, reviews 9220

Octotoma scabripennis
control
Lantana camara 4593
reviews 6633
New Caledonia 4593
New South Wales 6633

3-Octyl-thio-1,1,1-trifluoropropan-2-one, synergism 3155

Odiaglyptus
hosts, Pseudococcidae 2124
New Zealand 2124
taxonomy, new genus 2124

Odiiniidae, distribution, Bulgaria 6257

Odoiporus longicollis
bananas 10741
India 2778
biology 10741
chemosterilants, toxicity 6389
control, insecticides 10741
distribution, India 10741
physiology, nervous system 2778

Odonaspis penicillata
Florida 11431
parasitoids 11431

Odonata
Australia, catalogues 12031
Brazil 6525
checklists, Nicaragua 5235
Chile 4400
ecology 12031
Italy 3095
morphology, nervous system 9222
pathogens 3095
predators 6525
taxonomy 12031

Odonototermes formosanus, pheromones 9459

Odonotofroggata galili
distribution, Greece 9699
Ficus microcarpa 9699

Odontomachus troglodytes
biology, behaviour 1341
prey, Chrysomelinae 1341

Odontota dorsalis
biology, behaviour 8889
forest trees 10985
Formica subsericea, interactions 5915
predators 5915
Robinia pseudoacacia
Maryland 5915
Virginia 8889

Odontotermes
biology 1779
China 6597
control 1779
mulches 7095
food plants
Kenya 5513
Nigeria 5508
forest trees, damage 831
groundnuts, commodities 7095
Kenya 4546
predators 2524
Sri Lanka 2524
taxonomy 6597
Termitomyces, interactions, reviews 4554
trees, India 1779

Odontotermes distans
biology, behaviour 7537
India 7537

Odontotermes fontanellus
biology 1346
trees, China 1346

Odontotermes formosanus
attractants 9462
biology
behaviour 9459, 9462
environmental factors 5411
China 9462
control, trapping 9462
fungi, interactions 9462
microorganisms, interactions 5517
morphology, digestive system 5517
soil 5411

Odontotermes gurdaspurensis, mangoes, wood, Pakistan 11043

Odontotermes hainanensis
biology, behaviour 1352
China 1352

Odontotermes horni
biology 11487
India 11487
sugarcane, Sri Lanka 6695

Odontotermes lokanandi
biology 2527
mangoes, wood, Pakistan 11043
Pakistan 2527

Odontotermes magdalenae, physiology, secretions 4551

Odontotermes meridionalis
China 6597
taxonomy, new species 6597

Odontotermes obesus
biology 11487
behaviour 6596
movement 11490
reproduction 4549
Cicer arietinum, India 2853, 8725
coconuts, India 10665
control, insecticides 5848, 8725, 10665, 11734
groundnuts, India 11734
India 6596, 10413, 11487
morphology
reproductive organs 5504
spermatheca 6594
potatoes, India 5848
predators 10413

Odontotermes redemanni
India 10413
mangoes, wood, Pakistan 11043
predators 10413
sugarcane, Sri Lanka 6695

Odontotermes wallonensis
biology 11487
behaviour 6596
India 6596, 11487

Odontria striata
control, insecticides 466
pastures, New Zealand 466

Oebalus insularis
rice
Cuba 5638

- Oebalus insularis* cont.
rice cont.
resistance 7620
- Oebalus pugnax*
control, insecticides 9597
ecology, distribution 5650
food plants, Puerto Rico 9595
rice
Florida 5650
Texas 9597
sampling 5650
- Oebalus ypsilon*
food plants, Puerto Rico 9595
parasitoids 9596
rice, Puerto Rico 9596
- Oecanthus pellucens*, predators 2586
- Oechalia schellebergii*
biology, behaviour 3507
lucerne, fields, South Australia 3744
parasitoids 3744
prey, *Helicoverpa punctigera* 3507
- Oecophoridae*, *Copaifera langsdorffii*, Brazil 807
- Oecophylla smaragdina*
coconuts, plantations, Sri Lanka 3757
distribution, Denmark 1233
hosts, *Opisina arenosella* 3757
- Oedaleus senegalensis*
control 7300
crops, Cape Verde 151
field crops, Sahel 7300
pathogens 11078
viruses, effects, *Apis mellifera* 11078
- Oedancala*
grasses, America 11591
taxonomy 11591
- Oedancala cladiumicola*
grasses, America 11591
taxonomy, new species 11591
- Oedancala cubana*, grasses, America 11591
- Oedipoda caerulescens*
genetics, karyotypes 3471
USSR 3471
- Oedipoda germanica*, genetics, cytogenetics 5349
- Oedopodinae*, physiology, sense organs 6346
- Oedothorax apicatus*
arable land, Netherlands 7271
fields, Netherlands 6526
indicator species, pesticides, nontarget effects 7271
insecticides, toxicity 7271
monitoring, traps 6526
pesticides, effects 6526
- Oenothera*, *Altica foliacea*, Florida 10476
- Oftanol* (see Isofenphos)
- Oftanol T* (see Isofenphos, with thiram)
- Ogdoconta cinereola*
North Carolina 1312
parasitoids 1312
- Oiceoptoma noveboracense*, biology, behaviour 11373
- Oides scutellata*
control, insecticides 8574
grapes, India 8574
- Oidium lini*, *Psyllobora cincta*, India 6953
- Oiketicus kirbyi*
biology 816
coffee, Brazil 816
Eucalyptus 816
- Oil palms** (*Elaeis guineensis*)
arthropod pests 3213
Asia 3416
books 3213
Elaeidobius kamerunicus, pollination 7712
Eriophyidae, Ivory Coast 6784
Euseius beninensis, Benin 2876
extracts, effects, Isoptera 1908
Hispolepis subfasciata, Ecuador 1540
insect pests, Colombia 1543
insects, pollination 1541, 9134
oils, effects, *Callosobruchus maculatus* 6047
Oryctes rhinoceros, India 499
Parasa lepida, Asia 6454
Parasa viridissima, Nigeria 1542
pest control 9134
Malaysia 7713
- Oil palms** cont.
research, Papua New Guinea, reports 9134
Retracrus elaeis, Costa Rica 8550
Sarawak, reports 7299
- Oil plants**
arthropod pests, India 12021
Buzura suppressaria, China 2895
insect pests
damage 2799
reviews 2799
pest control 2799
- Oils**
control, citrus, arthropod pests 6828
insecticides, residues 11142
- Oilseed plants**
insect pests, Italy 10220
Sweden, conferences 2801-2802
- Okras** (*Hibiscus esculentus*)
Althaeus hibisci 3607
Amrasca biguttula, India 601, 2793, 8669, 9756
Amrasca devastans
India 3840
Pakistan 5779
varietal susceptibility 7875
Aphis gossypii, India 1603
Aphis punicea, Iraq 6844
attractants, *Eucelatoria bryani* 7873
Bemisia tabaci, India 4088
commodities, insecticides, residues 11692
Dysdercus koenigii 325
Earias vittella
India 9755
varietal susceptibility 7766
fields, parasitoids, India 6862
habitats, *Telenomus remus* 8370
Hemiptera, India 9754
insect pests
damage 7767
yield losses 11691
insecticides, residues 586, 9757, 11692
Melanagromyza hibisci, India 6862
Meloidea, India 3842
pest control, Sudan 6625
soil, insecticides, residues 12007
Spilosoma obliqua 2782
Spodoptera litura 8370
Syllepte derogata, Nigeria 3843
Tetranychus cinnabarinus, India 11693
Tetranychus macfarlanei, India 2794-2795, 3841
Xanthodes transversa, Japan 1611
- Old fields**
Araneae, Pennsylvania 11592
Tenodera aridifolia, USA 6545
- Olea europaea** (see Olives)
- Oleaceae**, *Papilio alexiares*, Mexico 10896
- Olethreutes**
control, insecticides 6696
sugarcane, China 6696
- Olethreutes celliflora**, pomegranates, India 1591
- Olethreutes lacunana**, small fruits, Switzerland 5701
- Olethreutinae**
morphology, developmental stages 3971
taxonomy 3424
Vietnam 3424
- Olethreutini**
taxonomy 3424
Vietnam 3424
- Oliarus**
Papua New Guinea 11681
parasitoids 361
Taiwan 4266
taxonomy 4266
- Oliarus morobensis**
pawpaws, Papua New Guinea 11681
taxonomy, new species 11681
- Oligochaeta**, insect growth regulators, effects 2755
- Oligomerismus oregonensis**
conifers, France 2958
genetics, karyotypes 2958
predators 2958
- Oligomerismus taxi**
conifers, France 2958
predators 2958
- Oligonychus afrasiaticus**
control, acaricides 500
dates, Libya 500
- Oligonychus coffeae**
predators 5902
tea, India 5902
- Oligonychus gossypii**
biology 8815
Hevea pauciflora, Brazil 8815
- Oligonychus grypus**
morphology 10545
predators 10544
sugarcane, Cuba 10544-10545
- Oligonychus ilicis**
Ilex opaca 10990
saponins, antifeedants 10990
- Oligonychus indicus**
control, insecticides 2664
predators 4675
sorghum, India 2664, 4675
- Oligonychus mexicanus**
biology, development 1458
predators 1458
- Oligonychus peruvianus**
cassava, Colombia 9841
predators 9841
- Oligonychus pratensis**
maize, Texas 10593
predators 11453
- Oligonychus ununguis**
Abies fraseri 9968
biology, environmental factors 9968
predators 9968
- Oligonychus yothersi**, avocados, damage 4773
- Oligoporus balsameus**, *Reticulitermes hesperus*, interactions 4077
- Oligosita**
hosts, Hemiptera 8514
rice, fields, India 8514
- Oligota**
coconuts, plantations, India 11619
prey, *Raoiella indica* 11619
- Oligota oviformis**
biology, development 1458
prey, *Oligonychus mexicanus* 1458
- Olios fasciculatus**, physiology, chemical composition 1125
- Olive oil**
effects
Callosobruchus chinensis 3082
Callosobruchus maculatus 6052
- Olives** (*Olea europaea*)
Aleurolobus olivinus, Europe 9912
arthropod pests
Italy 11636-11637
Sardinia 11620
Sicily 11655
Bactrocera oleae
Greece 577, 11670
Italy 11668-11669
Euphyllura olivina, Jordan 6842
Euphyllura pakistanica, damage 4793
insect pests 3820, 8650
damage 3820
Lepidoptera, Spain 1373
Metacronema japonica, India 8652
orchards
beneficial insects, Cyprus 1589
Myrmeleonidae, Italy 580
Scutellista cyanea, California 1590
Phloeotribus scarabaeoides, Morocco 10735
Prays oleae
economic thresholds 8651
Spain 579
Saissetia, Chile 4780
Saissetia oleae
California 1590
Cyprus 1589
Spain 11671
wood, *Psammotermes hybostoma*, damage 3067
- Olyzias latipes**, insecticides, effects 10107
- Oman**, invertebrates, surveys 11955
- Omethoate** (*O,O*-dimethyl *S*-[2-(methylamino)-2-oxoethyl] phosphorothioate)
control
Aonidiella aurantii 7744
Aphididae 6924

Omethoate *cont.*
control *cont.*
 Bemisia tabaci 7879
 Frankliniella 9716
 Frankliniella occidentalis 7007
 Niphona furcata 1420
 Oscinella 7679
 Parlatoria zizyphi 7749
 Ricania sublimbata 1577
 Thysanogyna limbata 5028
 Unaspis citri 10724
metabolism, mites 10437
residues, *Apis mellifera* 962
resistance
 Phytoseiulus persimilis 11439
 Rhizoglyphus robini 11748
 Sitobion avenae 5183
toxicity
 Aphidius gifuensis 7509
 Auricularia auricula, insect pests 11688
 beneficial insects 3497
Omiodes indicata
biology 1659
control, insecticides 2838, 3882
natural enemies 1659
soyabeans
 China 1659
 India 2838, 3882
Ommatissus, taxonomy 2135
Ommatissus binotatus
biology, development 8551
dates 8551
morphology, sense organs 8552
taxonomy 2135
Ommatissus lybicus, taxonomy 2135
Ommatoiulus
parasitoids 6521
Portugal 6521
Ommatoiulus moreleti
biological control agents, evaluation 6521
households, Australia 6521
pathogens 6016
South Australia 6016
Omphalocera munroei
Asimina, Florida 7566
ecology, population dynamics 7566
Omphisa anastomosalis
ecology, distribution 9836
sweet potatoes, Japan 9836
Oncideres impluviata
biology 5944
 Parapiptadenia rigida, Brazil 5944
Oncideres pustulatus
Acacia farnesiana, Texas 5956
biology, behaviour 5956
Oncideres saga saga
biology 5944
 Parapiptadenia rigida, Brazil 5944
Oncidium, *Zonitoides nitidus*, damage 6996
Oncocephalus annulipes, prey, insects 8348
Oncometopia nigricans
control, insecticides 11666
oranges, Florida 11666
plant pathogens, transmission 11666
Oncopeltus fasciatus
biology
 behaviour 4372
 life cycle 1145
 dihydropyrans, effects 6956
 evolution 4372
 physiology, reproductive organs 7365
 plant oils, effects 8967
 predators 10443
Oncopera intricata
pathogens 6067
Tasmania 6067
Oncophanes americanus
biology, behaviour 1316
hosts, *Argyrotaenia citrana* 1316
Onions (*Allium cepa*)
Acrolepiopsis assectella, Poland 1704
Agrotis ipsilon, Taiwan 1604
Agrotis segetum, Denmark 3832
Agrypnus variabilis, New South Wales 8658
arthropod pests
 biology 6233
 control 6233
Onions *cont.*
arthropod pests *cont.*
 damage 6233
 German Democratic Republic 7550
 natural enemies 6233
 Calliphoridae, pollination 8661
 Delia antiqua 5853, 5855-5856, 9844
 British Columbia 2881
 Michigan 715, 8754, 11750
 New York 8752
 Poland 6939
 Romania 2882
 Delia platura, varietal susceptibility 5801
fields
 Bembidion quadrimaculatum, Michigan 11750
 Coenosia tigrina, Michigan 1708
 Hymenoptera, Poland 1704
 Hydraecia mongoliensis, Japan 5858
insect pests
 Brazil 8750
 India 8186-8187, 8753, 9845
insecticides
 effects 1707
 residues 3911
 Rhizoglyphus echinopus 3912
 Rhizoglyphus robini, Taiwan 11748
 Spodoptera exigua
 Indonesia 3913
 Japan 10839
 Stenotarsonemus furcatus, India 717
 Thrips tabaci
 damage 8751
 India 7829-7830
 Pakistan 4897
 resistance 7828
 Texas 5857
 yield losses 714
 Thysanoptera, Texas 6940
Oniscus asellus
biology, population dynamics 1858
forests, New York 1858
physiology, water relations 10266
soil, interactions 1858
Oniticellus intermedius, pastures, Australasia 11596
Onitis alexis
biology, phenology 1510
pastures, New South Wales 1510
Onobrychis sativa (see Sainfoin)
Onobrychis vicifolia (see Sainfoin)
Onopordum acanthium
Agapanthia dahli, Hungary 4910
invertebrates, New South Wales 2572
Onopordum illyricum, invertebrates, New South Wales 2572
Onthophagini
Africa 10227
taxonomy 10227
Onthophagus
dung, Spain 8398
France 6263
Korea Republic 6263
morphology 2156, 6263
taxonomy 2156, 8208
Turkey 8208
Onthophagus consentaneus, pastures, Australasia 11596
Onthophagus foedus, taxonomy 5265
Onthophagus fracticornis
biology, phenology 8398
cattle dung, Spain 1359
dung, Spain 8398
ecology, population dynamics 1359
Onthophagus furcatus
biology, phenology 8398
dung, Spain 8398
Onthophagus gazella
biology, reproduction 7456
morphology 2156
pastures, Australasia 11596
rearing techniques 7457
taxonomy 2156
Onthophagus lemur
biology, phenology 8398
dung, Spain 8398
Onthophagus lenzii
biology, behaviour 9470
cattle dung, Japan 9470
Onthophagus palatus, taxonomy 5265
Onthophagus palatus group, taxonomy 5265
Onthophagus parapalatus
Indonesia 5265
taxonomy, new species 5265
Onthophagus similis
biology, phenology 1211, 8398
dung, Spain 8398
rabbit droppings, Spain 1211
Onthophagus taurus
biology, phenology 8398
dung, Spain 8398
Ontsira palliatus
control, *Monochamus alternatus* 3967
rearing techniques 3967
Onychiurus armatus
control, insecticides 8728
sugarbeet 8728
Onychiurus encarpatus
biological control agents, interactions 9020
control, *Rhizoctonia solani*, evaluation 1925, 9020
Onychiurus folsomi
biology 1175
distribution, Spain 1175
morphology 1175
Onychiurus zschokkei
biology, behaviour 7014
Quercus ilex 7014
Onychylis cretatus, taxonomy, to *Pistaciola* 9497
Onymarcis plana, physiology, nervous system 3302
Ooencyrtus
biology 5449
cereals, fields, Iran 3649
China 1334
forests, Hungary 8851
Greece 2993
hosts
 Anasa tristis 5449
 Dendrolimus pini 8851
 Dendrolimus tabulaeformis 1334
 Epiricania melanoleuca 8392
 Eurygaster integriceps 3649
 Riptortus clavatus 8692
 Thaumetopoea pityocampa 2993
 India 8392
 legumes, fields, Japan 8692
Ooencyrtus anasae
biology 5449
hosts, *Anasa tristis* 5449
Ooencyrtus kuvanae
biology
 behaviour 8364
 environmental factors 11443
 France 4016
 hosts, *Lymantria dispar* 4016, 8364, 11443
Ooencyrtus masii
biology 5932
forests, Italy 5932
hosts
 fruits, insects 2723
 Thaumetopoea processionea 5932
 orchards, USSR 2723
 taxonomy, keys 2723
Ooencyrtus nezarae
hosts, *Riptortus clavatus* 8692
legumes, fields, Japan 8692
Ooencyrtus obscurus
hosts, *Hipparchia fidia* 4689
Spain 4689
Ooencyrtus pityocampae
attractants 5002
biology 5933
Cedrus, forests, Morocco 7021
hosts
 insects 5933
 Thaumetopoea bonjeani 7021
 Thaumetopoea pityocampa 5002
 monitoring, traps 5002
 Pinus, forests, Italy 5933
 Pinus nigra, forests, Italy 5002
Ooencyrtus submetallicus
hosts, Pentatomidae 9596
rice, fields, Puerto Rico 9596
Ootheca bennigseni
control, insecticides 11685
distribution, maps 6457

- Ootheca bennigseni* cont.
Phaseolus, Africa 6457
Phaseolus vulgaris, Tanzania 11685
- Ootheca mutabilis*
distribution, maps 6456
legumes, Africa 6456
plant pathogens 5810
transmission 6456
Vigna unguiculata, Benin 5810
- Opeia obscura*, *Bouteloua gracilis*, Arizona 3730
- Operophtera*, *Betula nana*, Europe 7033
- Operophtera brumata*
apples
German Democratic Republic 542
Nova Scotia 2738, 10701
control
biological control 9018
insecticides 810, 1802, 1972, 2690, 2738, 10701
ecology
competition 2985
population dynamics 10960
food plants 1851
fruits, German Democratic Republic 2690
parasitoids 1851, 2722
pathogens 6061
Quercus, USSR 810, 1802
Quercus robur
Netherlands 1770
UK 2985
trees, Canada 9018
UK 2722
USSR 1972
- Operophtera fagata*
biology 8832
Fagus sylvatica, Spain 8832
morphology 8832
- Ophideres* (see *Eudocima*)
- Ophiomyia centrosematis*
biology 2833
food plants 2833
- Ophiomyia phaseoli*
control 639, 6888
insecticides 646, 2816, 3875
food plants, India 2816
parasitoids 639
peas, India 646, 3875
Phaseolus vulgaris, Ethiopia 639
rearing techniques 2843
soybeans 2843
Vigna radiata, Sri Lanka 6888
- Ophiomyza lantanae*
Asia 4603
control, *Lantana camara* 4603
- Ophion triangularemaculatus*
Citrus, orchards, India 1584
hosts, *Psorosticha zizyphi* 1584
- Ophioneurus signatus*
hosts, fruits, insects 2723
orchards, USSR 2723
taxonomy, keys 2723
- Ophioninae*
forests, Hungary 5017
hosts, *Lymantria dispar* 5017
- Ophiostoma*, *Ips typographus*, interactions 7929
- Ophiostoma brunneo-ciliatum*
arthropods, interactions 9980
vectors, *Ips sexdentatus* 7963
- Ophiostoma cucullatum*, *Ips typographus*, interactions 5023
- Ophiostoma minus*, arthropods, interactions 9980
- Ophiostoma polonicum*, mites, interactions 10946
- Ophonus rufipes* (see *Harpalus rufipes*)
- Ophraella*, Compositae 11509
- Ophraella americana*, taxonomy 11509
- Ophraella artemisia*
food plants, Texas 11509
taxonomy, new species 11509
- Ophraella communis*
food plants, Texas 11509
morphology 11509
- Ophraella conferta*
Compositae 11509
morphology 11509
- Ophraella cribrata*
Compositae 11509
- Ophraella cribrata* cont.
morphology 11509
- Ophraella macrovittata*, taxonomy, synonyms, of *Ophraella sexvittata* 11509
- Ophraella notata*
Compositae 11509
morphology 11509
- Ophraella notulata*
Compositae 11509
morphology 11509
- Ophraella pilosa*
Compositae 11509
morphology 11509
taxonomy 11509
- Ophraella sexvittata*
Compositae 11509
morphology 11509
taxonomy, synonyms, *Ophraella macrovittata* 11509
- Ophrys*
Hymenoptera, pollination 6992
pollinators, evolution 6992
- Opilio canestrini*, buildings, Denmark 1339
- Opiliones*
buildings, Denmark 1339
climbers, Berlin 774
evolution 6275
forests
German Federal Republic 4203
New Zealand 7018
habitats, German Democratic Republic 10470
heavy metals, pollutants 9100
indicator species 4203
morphology 6275
Netherlands 9100
pollutants, toxicity 4203
potatoes, fields, UK 8739
prey, Aphididae 8739
- Opisina arenosella*
biological control agents, India 2701
biology, reproduction 6288
coconuts
India 6783, 9649-9650, 10668
Sri Lanka 3757
parasitoids 2497, 8362, 9649-9650, 10458, 10668
predators 3757
tropicals 2497
- Opius*
hosts
Hydrellia griseola 1469
Tephritidae 2692
India 2692
parasitoids 1469
rice, fields, South America 1469
- Opius dimidiatus*
greenhouses, Netherlands 4536
hosts, *Liriomyza* 4536, 6649
weeds, habitats, Florida 6649
- Opius dissitus*
hosts, *Liriomyza* 6649
weeds, habitats, Florida 6649
- Opius exiguus*
biology, phenology 7789
vegetables, fields, India 7789
- Opius incisi*
biology, behaviour 11462
India 11462
- Opius lemnaphilae*
Florida 4581
hosts, *Lemnaphila scotlandae* 4581
- Opius pallipes*
greenhouses, Netherlands 4536
hosts, *Liriomyza* 4536
- Opius phaseoli*
hosts, *Ophiomyia phaseoli* 639
Phaseolus vulgaris, fields, Ethiopia 639
- Opius pteridiophilus*
hosts, *Drosophila notha* 10509
Pteridium esculentum, habitats, New South Wales 10509
taxonomy, new species 10509
- Opius pterus*
hosts, *Drosophila megagenys* 10509
Pteridium esculentum, habitats, New South Wales 10509
taxonomy, new species 10509
- Opius turcicus*
biology, phenology 7789
- Opius turcicus* cont.
vegetables, fields, India 7789
- Oplostomus fuliginosus*
bee houses, South Africa 10475
biology, development 10475
prey, *Apis mellifera* 10475
- Opogona*, potatoes, Nepal 3904
- Opomyza florum*
biology 5582
cereals, Italy 5582
control 5582
cultural control 4614
wheat, Romania 4614
- Oppia bayoumi*, insecticides, toxicity 3162
- Oppia concolor*, insecticides, toxicity 3162
- Oppiella nova*, pastures, Spain 7678
- Opuntia aurantiaca*, *Cactoblastis cactorum*, South Africa 337, 2567
- Opuntia ficus-indica*
Cactoblastis cactorum, South Africa 337, 2567
Dactylopius coccus 4561
- Opuntia imbricata*, Coleoptera, pollination 7554
- Opuntia robusta*, *Dactylopius coccus* 4561
- Oracella acuta*
biology 11801
parasitoids 11801
Pinus taeda, Georgia 11801
- Oraesia emarginata*
fruit trees, Korea Republic 3747
monitoring, traps 3747
- Oraesia excavata*
fruit trees, Korea Republic 3747
monitoring, traps 3747
- Oranges* (*Citrus sinensis*)
Acari, Florida 9720
Aleyrodidae, Italy 3816
Aonidiella aurantii, South Africa 4779, 4787
Aphididae, Brazil 9718
Aphis spiraeicola, Egypt 574
arthropod pests, California 8649
arthropods, Japan 6828
Brevipalpus phoenicis 569
Brazil 3817, 6838
Ceratitidis capitata 494, 10722
Guatemala 6583
Hawaii 7897
resistance 8646
Cicadellidae, Florida 11666
Coccidae, Cuba 9714
commodities
fumigants, residues 1912
insect pests 1912
insecticides, residues 864, 4191
- Cryptophlebia leucotreta*
resistance 8647
South Africa 4788
- Eudocima*, India 1585
- Fiorinia citri*, China 3238
- Hemiptera
Cuba 8642, 9712
India 4789
- Indarbela quadrinotata*, India 5010
- insecticides
residues 570
toxicity 10730
- orchards
Coccophagus pulvinariae, Cuba 9714
Cycloneda sanguinea, Cuba 9721
- Hymenoptera
Cuba 9712
India 1584
parasitoids
Italy 3816
South Africa 4779
Phytoseiidae, Brazil 6837
predatory insects, Brazil 9715
Solenopsis geminata, Guatemala 6583
- Trichogrammatoidea cryptophlebiae*, South Africa 8647
- Panonychus citri*
California 9710, 10728
damage 2768
- Pantomorus cervinus*, Florida 10720
- Papilio zelicaon*, California 3358

- Oranges** *cont.*
Phyllocnistis citrella
Pakistan 5753
resistance 3809
Phyllocoptruta oleivora
Brazil 1586
Florida 6839
Polyphagotarsonemus latus 10725
Priscapalpus piarai, India 6778
Psorosticha zizyphi, India 1584
Saissetia, Chile 4780
Selenaspis articulatus
Brazil 9715
Cuba 10729
Toxoptera aurantii, resistance 3810
Toxoptera citricidus, Peru 6835
Unaspis citri, Cuba 9713
- Orasema**
hosts, *Solenopsis invicta* 2416
physiology, cuticle 2416
- Orchardgrass** (*see* *Dactylis glomerata*)
- Orchards**
Agrias fuscicollis, USSR 2720
Apis mellifera, Switzerland 5723
arthropods
Switzerland 10660
USSR 1554
Ascogaster quadridentata, USSR 2728
beneficial arthropods, USSR 526
beneficial insects, Iraq 5736
Blepharidopterus angulatus, UK 6806
Drosophila albomicans, Japan 3417
Drosophila melanogaster, Maryland 7708
Encarsia perniciosi, German Federal Republic 7709
Hymenoptera, USSR 1555, 4728, 4730, 5724
Ichneumonidae, USSR 2727
Kampimodromus aberrans, Austria 2726
Metaseiulus occidentalis, USSR 537
parasitoids
Iran 493
USSR 2722-2723
pest control
Europe 491
German Federal Republic 4159
Phytoseiidae, USSR 5694, 11643
predatory mites, Austria 2741, 6780
Trichogramma aldanense, USSR 4734
Trichogramma dendrolimi, China 535
Zettellia mali, German Federal Republic 1282
- Orchesella cincta**
Europe 10138
food 10138
heavy metals, effects 10138
pollution, effects 10138
prey, Collembola 3518
- Orchidaceae**
books 7252-7253
Chaetanaphothrips orchidii 6459
pest control 7252
New Zealand 5913
Planococcus orchidi 16
Zonitoides nitidus, damage 6996
- Oreocallis wicklamii**, *Idaethina ursula*, Queensland 11806
- Oreochromis niloticus**, insecticides, effects 6173
- Organic acids**, synergism 10084
- Organic farming**, pest control, products, books 11256
- Organic fertilizers**, effects, *Helicoverpa zea* 9548
- Organic salts**, synergism 10084
- Organic sulfur compounds**, attractants, *Delia antiqua* 5855
- Organic wastes**, effects, arthropods, reviews 6445
- Organizations**, pesticides, monitoring, directories 7280
- Organochlorine insecticides**
control
Euwallacea fornicatus 9903
Isoptera 4548
detection 11140
extraction, soil 11985
nontarget effects, *Cicer arietinum* 1672
- Organochlorine insecticides** *cont.*
residues
aquatic animals 3190
man 3191
reservoirs 8145
sea water 9093-9094, 9096
soil 11233
streams 7228
vertebrates 11224
water 11208
toxicity
Callosobruchus maculatus 1672
Delphacidae 10104
- Organochlorine pesticides**
degradation 983
residues
analysis 10367, 11017
birds 968, 9086, 10135
fishes 10132, 11993
foods 7082
man 10134
toxicity
Acari 2880
Chiroptera 8122
- Organophosphate acaricides**, control, *Tetranychus urticae* 6995
- Organophosphate insecticides**
control
Coccoidea 524
Isoptera 4548
Platynota idaeusalis 8585
degradation 3201
formulations, impurities 3193
residues, sea water 9091, 9096
resistance
Nephotettix cincticeps 10110
Plutella xylostella 7779
toxicity
Delphacidae 10104
Heliothis virescens 11978
- Organophosphorus acaricides**
synergism 9707
toxicity, *Panonychus citri* 9707
- Organophosphorus compounds**, structure
activity relationships, models 9030
- Organophosphorus insecticides**
analysis 6483, 8305
control
Aloephagus myersi 8800
Lepidoptera 10857
Pectinophora gossypiella 1730
detection 11144
effects, plant pathogens 11206
extraction, soil 11985
metabolism, reviews 10180
mixtures
control
Bothynoderes punctiventris 6912
Lepidoptera 10857
nontarget effects 7174
Cicer arietinum 1672
man 5249, 9081, 11989
reviews 8113
residues, birds 10148
resistance
Chilo suppressalis 10112
Chrysoperla carnea 2509
insects 7178
Phyllonorycter blancardella 10699
Platynota idaeusalis 3795
Rhizoglyphus robini 11748
stored products pests 8949
structure-activity relationships 8077
toxicity
beneficial insects 3497
Callosobruchus maculatus 1672
Sitophilus oryzae 7174
- Organophosphorus pesticides**
analysis 164, 7216
conferences 9130
metabolism 5195
nontarget effects, man 9073
residues, analysis 10367
toxicity, Acari 2880
- Orgilinae**, taxonomy 2147
- Orgilus laevigator**
forests, Hungary 8851
hosts, *Dendrolimus pini* 8851
- Orgilus lepidus**
distribution, Victoria 10826
hosts, *Phthorimaea operculella* 10826
- Orgilus lepidus** *cont.*
potatoes, fields 10826
- Orgyia antiqua**
biology 527
control 527
fruits, USSR 527
morphology 527
- Orgyia leucostigma**
diets 10954
physiology
nutrition 10954
water relations 2284
tannins, effects 10954
- Orgyia postica**
monitoring, traps 1204
pheromones 1204
- Orgyia pseudotsugata**
Abies concolor
California 5925
Oregon 3988
control 7917
ecology, population dynamics 10960
forest trees, British Columbia 7917
monitoring 7917
pathogens 1946, 4115, 4137, 11092, 11101-11102
pheromones 4312
predators 3988
- Oribatei** (*see* Cryptostigmata)
- Oribatida** (*see* Cryptostigmata)
- Oribatula**
biology, behaviour 10723
Citrus, orchards, Egypt 10723
food 10723
prey, *Ceroplastes floridensis* 10723
- Oriental Region**
Blacinae 10232
Cryptostigmata, catalogues 6237
Derelomini 3925
Deroplax 2968
Encarsia 3498
entomology, biosystematics 5409
Epilachninae 4407
Hydrellia 7305
Psychopsidae 3
Termitidae 3580
- Origanum**, Sphecidae, Chile 1340
- Origanum majorana**, insecticides, residues 1407
- Orius**
apples, orchards, Switzerland 2742
biology
development 7528
phenology 9827
Cucurbitaceae, fields, Iraq 4836
potatoes, fields, Brazil 9827
prey
apples, arthropod pests 2742
potatoes, insect pests 9827
Thrips palmi 7528
- Orius dissitus**
hosts, *Liriomyza trifolii* 4522
insecticides, effects 4522
- Orius insidiosus**
Cajanus cajan, fields, Puerto Rico 3886
maize, fields, Texas 9566
plant extracts, attractants 233
prey
Diatraea grandiosella 9566
Empoasca 3886
Noctuidae 8492
- Orius laticollis**, distribution, Israel 1182
- Orius minutus**
apples, orchards, China 8593
cover crops, effects 8593
ecology, population dynamics 8593
insecticides, effects 8593
North America 7513
Orius tristicolor, differentiation 7513
potatoes, fields, USSR 1696
prey, Hemiptera, predators 1696
taxonomy 7513
- Orius sauteri**
food 3532
prey, arthropods 3532
rearing techniques 3532
- Orius tristicolor**
biology, behaviour 8662
fields, California 8662
lucerne, fields, California 6642
North America 7513

Orius tristicolor cont.

Orius minutus, differentiation 7513
prey, *Frankliniella occidentalis* 8662

Orius vicinus

apples, orchards, Italy 5735
control, *Panonychus ulmi* 5735
fungicides, effects 520
prey

Acari 4723

Panonychus ulmi 520

vineyards, Italy 4723

Ormyrus

forests, China 7937
hosts, *Torymus sinensis* 7937

Ornamental plants**Aleyrodidae**

Denmark 2946
German Federal Republic 11780
Norway 10902

Aphididae

China 4921
Israel 1855
Jordan 10366
Spain 5549

Arge 5975

arthropod pests 9131, 10172

China 10892

control 5237

biological control 2942, 9024

pesticides 11115-11116

Florida 4166

German Democratic Republic 910,

3835

German Federal Republic 3964

Hungary 9923

Italy 11636

sampling 7893

Singapore 5248

arthropods, Netherlands 3145

bibliographies 10888

books 10172

Bradysia paupera, German Federal

Republic 10903

Chaetanaphothrips orchidii 6459

Coccoidea, USSR 1752

Coccus hesperidum, Hungary 9922

Cornuaspis cupressi 8804

Frankliniella occidentalis

damage 11383

Finland 6123, 9486

Italy 9921

North Carolina 10904

Norway 3956, 3960, 7006

Switzerland 5774

habitats

beneficial arthropods, German Fed-

eral Republic 11786

Heteroneda mimetica, Papua New

Guinea 10868

Hyphantria cunea, USSR 485

insect pests 10888

control, biological control 4155

Egypt 776

Italy 2556

Nigeria 593

plant extracts, effects 5234

Western Australia 11778

Lepidoptera

Italy 2944

Spain 1373

Liriomyza, Netherlands 4536

Maladera matrida, Israel 2691

Pectinophora scutigera, Queensland

5871

pest control 3963, 6998, 7000, 9017,

9125

Denmark 2942

Europe 5161

German Federal Republic 4159,

5182, 10101

Israel 11784

Italy 3135

nontarget effects 959

reviews 772

USSR 12028

Pomacea, Philippines 454

protected cultivation, conferences 9125

Quadraspidiotus perniciosus, USSR

8548

Rastrococcus invadens, Togo 563

research, Nova Scotia, reports 10218

Ornamental plants cont.

Tetranychidae, China 4957

Thysanoptera, German Federal Repub-

lic 3836

Ornamental woody plants

arthropod pests

Czechoslovakia 837

resistance 7001

Diaspididae, USSR 2696

Lepidoptera, Spain 1373

Merobruchus, America 3249

pests, North America, books 8167

Ornithoptera priamus poseidon

biology, behaviour 8436

Stachytarpheta mutabilis, Papua New

Guinea 8436

Orocrambus flexuosellus

biology

development 5360

phenology 5685

pastures, New Zealand 5685

Orocrambus vittellus

biology

development 5360

phenology 5685

pastures, New Zealand 5685

Orontium aquaticum, Neohydronomus

affinis 5556

Orosius albicinctus (see *O. orientalis*)**Orosius argentatus**

crops, Victoria 2710

plant pathogens, transmission 2710

Orosius orientalis

Callistephus chinensis, India 10889

plant pathogens, transmission 10889

Orseolia oryzae

biology, behaviour 3731

biotypes 6724

control

cultural control 3687, 7648

insecticides 10610

fertilizers, effects 7648

Gramineae, India 3731

natural enemies 450

parasitoids 7626, 10610

rice

Asia 450

India 423, 437, 1471, 2643, 3687,

3699, 4657, 5658, 5661, 6724,

6732, 7625, 7648, 10610,

11561, 11568

resistance 1483, 7621, 7626

sampling 423

Orseolia oryzivora, rice, Nigeria 1476**Orsillus depressus**

Chamaecyparis lawsoniana 1878

distribution, Europe 1878

Orsodacne cerasi

Aegopodium podagraria, USSR 11506

morphology 11506

Ortaniques, Aonidiella aurantii, Israel

7744

Orthacris simulans (see *Neorthacris*

simulans)

Orthaga euadruisalis

mangoes 4800

plant pathogens, transmission 4800

Orthene (see *Acephate*)**Orthezia insignis**

biology, behaviour 3979

food plants, India 3979

Orthezia praelonga

biology 4954

coffee, Brazil 4954

control 4954

natural enemies 4954

Ortheziidae

distribution, Pacific Islands 7273

taxonomy 7273

Orthocladinae, morphology 5397**Orthodes infirma**

Gramineae, Brazil 5601

natural enemies 5601

Orthoporus ornatus, physiology, chemical

composition 1125

Orthops

carrots, Poland 4878

control, insecticides 4878

Poland 6857

Orthops campestris 6857

Poland 6857

Orthoptera

apricots, India 11654

biology 9371

food preferences 10644

life cycle 1043

Botswana, reports 2116

cereals, Alberta 11994

Chile 5231

conservation 6397

control, insecticides 11994

distribution, Nepal 189

evolution 4286

genetics, karyotypes 3471

grasses, South Carolina 10644

insecticides, toxicity 10109

Italy 3095

Mississippi 5378

Nepal 4412

North America 9371

Pacific Islands 191

pathogens 3095, 5123, 7130

pheromones 8161

reviews 7342

physiology, nutrition 6319

Piper arieianum, Costa Rica 8826

plant extracts, effects 3151

polymorphism 1043

predators 8328, 10442

research projects 5423

rice, fields, Philippines 3701

Spain 7432

taxonomy 189, 1000, 4412, 9371

USSR 3471

Orthopteroidea

biology 7255

British Isles, books 7255

songs 7255

Orthorrhapha, morphology, muscles, books

10195

Orthosiphon aristatus, extracts, insecticidal

properties 9041

Orthosiphon staminea (see *O. aristatus*)**Orthotomicus angulatus**

pathogens 11797

Pinus densiflora, Korea Republic

11797

Orthotomicus caelatus

pheromones 10010

Pinus elliottii, Florida 10010

Orthotomicus erosus

control, traps 2950

distribution, USSR 2948

ecology, population dynamics 11848

forest trees 2948

natural enemies 9938

Norway 11848

Pinus, Israel 5045, 9938

Pinus brutia, Turkey 2950

predators 5045

Orthotomicus laticis

ecology, population dynamics 11848

Norway 11848

Orthothydeus californicus

biology 1331

USSR 1331

Orthothydeus caudatus

morphology 2125

taxonomy 2125

Orthothydeus longisetosus

taxonomy, new species 1029

wheat, fields, Egypt 1029

Orussidae

evolution 4280

morphology 4280

Orycteropus afer, prey, *Macrotermes* 5515**Oryctes monoceros**

coconuts, Tanzania 5695

control, microbial pesticides 5695

Oryctes rhinoceros

biology, phenology 499

coconuts, India 497, 6783, 9648, 10669

control

insecticides 497

microbial pesticides 9648

Diplogynium oryctae, interactions 2144

growth regulators, effects 10667

insecticides, toxicity 497

oil palms, India 499

pathogens 893, 11095

physiology

endocrine system 6362

- Oryctes rhinoceros* cont.
physiology cont.
enzymes 2179, 2192
reproductive organs 6291
sex determination 1539
- Oryza*
commodities, *Sitotroga cerealella*, resistance 7987
Nilaparvata lugens 9589
- Oryza australiensis*, *Cnaphalocrocis medinalis*, resistance 4667
- Oryza nivara*, *Cnaphalocrocis medinalis*, resistance 4667
- Oryza officinalis*
extracts, effects, *Nilaparvata lugens* 8506
Nephotettix 7640
- Oryza perennis*, *Cnaphalocrocis medinalis*, resistance 4667
- Oryza punctata*, *Cnaphalocrocis medinalis*, resistance 4667
- Oryza sativa* (see Rice)
- Oryzaephilus*
cereal grains 4056
control, trapping 4056
- Oryzaephilus mercator*
attractants 8153
groundnuts, commodities 6046
India 11046
insecticides, toxicity 5080, 6046
pathogens 11046
pheromones 4056, 9207
- Oryzaephilus surinamensis*
attractants 8153
barley
commodities 11029
Minnesota 7108, 11880
biology
behaviour 1162, 7366
environmental factors 121, 6034
reproduction 8943
cashews, commodities 867
control
fumigants 4073
impaction 5086
ecology, population dynamics 3052, 7100
insecticides
resistance 7108, 8949
toxicity 8949
maize, commodities, Georgia 3052
monitoring, traps 11029
oats, commodities 857
pheromones 67, 857, 4056, 9207
physiology
cuticle 3297
senses 1162
plant extracts, toxicity 4066
predators 860, 4068
sorghum, commodities 8943
UK 6034
wheat
commodities 4066, 4073, 6034
damage 7109
Queensland 7100
- Oryzopsis hymenoides*, *Typocerus serraticornis*, USA 3630
- Oryzotephusa senex*, insecticides, effects 3177
- Oscinella*
alkaloids, attractants 3212
control 7679
insecticides 6758
grasses, UK 6758, 7679
Kenya 3212
Lolium multiflorum, UK 6757
parasitoids 7679
wheat, USSR 10556
- Oscinella frit*
barley, varietal susceptibility 1447
biology 6718
cereals, USSR 4615
control 1440, 7679
cultural control 4614, 6757
insecticides 4615, 4649, 6718
integrated control 9135
grasses
German Democratic Republic 3652
UK 7679
varietal susceptibility 3652
grasslands, UK 8535
- Oscinella frit* cont.
insecticides, effects 8535
Lolium multiflorum, UK 6757
maize, Poland 4649, 6718
movement, recording 10374
oats, Finland 1440
parasitoids 7679
wheat
Romania 4614
USSR 2621
- Oscinella pusilla*
barley
USSR 10582
varietal susceptibility 1447
- Oscinella vastator*
grasslands, UK 8535
insecticides, effects 8535
- Osmanthus fortunei*
Argopistes coccinelliformis 8805
Japan 8802-8803
- Osmanthus fragrans*, *Argopistes coccinelliformis*, Japan 8803
- Osmanthus fragrans* var. *aurantiacus*
Argopistes coccinelliformis 8805
Japan 8803
- Osmanthus heterophyllus*, *Argopistes coccinelliformis*, Japan 8802-8803
- Osmia*, collections 9140
- Osmia californica*, parasites 9402
- Osmia cornifrons*
apples, pollination 7733
insecticides, toxicity 7733
- Osmia lignaria propinqua*, parasites 9402
- Osmia montana montana*, parasites 9402
- Osmia ruficornis*
attractants 8875
biology, seasonal fluctuations 8875
habitats, Georgia 8875
- Ossiannilssonola callosa*, *Acer pseudoplatanus*, damage 8894
- Ostracoda*, insect growth regulators, effects 2755
- Ostrinia*
ecology, adaptation 4655
hemp, USSR 4655
- Ostrinia furnacalis*
biology, development 10358
cereals, China 10590
China 8037
control 2635
cultural control 8495
mating disruption 3673
diets 4636, 10358
insecticides, toxicity 3085, 5116
larvae, sex determination 5400
maize
China 3673
Philippines 8495
Taiwan 2635
minerals, effects 10358
morphology 20
parasitoids 7511
pathogens 4108, 8037
pheromones 3673, 10590
synthesis 3668
physiology, enzymes 8226
rearing techniques 4636
- Ostrinia narynensis*
ecology, adaptation 4655
hemp, USSR 4655
- Ostrinia nubilalis*
antifeedants 6713
biology 1454, 2626, 2893, 6713, 8496, 11542
behaviour 5620, 8232, 10596
development 8473
models 3677
diapause 7612
dispersal 10586
birds, interactions 4641
Capsicum, Italy 2893
chrysanthemums, varietal susceptibility 4970
control 2893, 6713
biological control 5630, 11542
cultural control 4642, 10600
insecticides 2631, 4641, 4646, 5629, 8482, 8487, 10591
crops
resistance 6713
USSR 916
- Ostrinia nubilalis* cont.
diets 1106, 5619-5620, 8473
distribution, Switzerland 142
ecology
adaptation 4655
population dynamics 5614
food plants, USSR 4655
genetics 3667
insecticides, pathogenicity 11907
kairomones 7525
maize 418, 1106, 5614, 6549
China 10590
damage 5619
France 3677, 10596
German Federal Republic 10600
Hungary 8487
Illinois 4654
Iowa 1456, 5617, 9569, 9571, 11539, 11547
Italy 11540, 11542, 11609
Kansas 1454
Kentucky 2638
Maryland 3667
Minnesota 10586
Nebraska 2631, 10591
New York 4641
North America 2624
North Carolina 7612
Ontario 4642
resistance 1452, 2633, 2640, 4651, 7603, 8500, 10604
Romania 4645-4646, 5629-5630
Syria 4652
Turkey 2626, 8496
USA 8482
varietal susceptibility 7605, 10605
monitoring 916
traps 3667, 7612
natural enemies 890, 1314
North America, reviews 6713
North Carolina 1312
parasitoids 400, 418, 1275, 1312, 2488, 4970, 5467, 5470, 5613, 6549, 7525, 8337, 8342, 8373, 11542, 11609
pathogens 3547, 4654, 5127, 7152, 7158, 11939
models 5614
Phaseolus vulgaris, New York 8698
pheromones 66, 3667, 5470, 6304, 8232, 8241, 8698, 10590
analogues 8238
physiology
diapause 5293
digestive system 5311
endocrine system 92, 6304, 11337, 11341
enzymes 50, 2196
kairomones 5467
sense organs 1106
plant extracts
effects 10539
toxicity 2628, 7189
plants, extracts, effects 4151
predators 3547, 11445
races 8698
rearing techniques 5620
sampling 2638
- Ostrinia scapularis*
ecology, adaptation 4655
hemp, USSR 4655
- Otala lactea*, physiology, metabolism 317, 9481
- Otiiorhynchinae*, taxonomy 3246
- Otiiorhynchus*, morphology 1044
- Otiiorhynchus ligustici*
control, insecticides 1409
hops, Czechoslovakia 1409
lucerne, Ontario 10651
sampling 10651
- Otiiorhynchus ovatus*
conifers 10924
control, insecticides 10924
nurseries, Belgium 1876
- Otiiorhynchus rugosostriatus*, nurseries, Belgium 1876
- Otiiorhynchus smreczynskii*
control, cultural control 5070
lilac, German Federal Republic 5070
- Otiiorhynchus sulcatus*
biology, development 3770

- Otiorynchus sulcatus* cont.
conifers 10924
control
insecticides 3770, 10924
microbial pesticides 6672, 11110
grapes, California 3770
hops, USA 6672
monitoring, traps 3770
nurseries, Belgium 1876
pathogens 1941
predators 6108
strawberries, Switzerland 5702
- Otitidae**
Brazil 270
hosts, *Dettmeria euxestae* 270
- Otus asio*
eggs, acaricides, residues 3441
insecticides, effects 3181
- Oulema**
control 4629
insecticides 381
German Democratic Republic 28
models 28
physiology, development 28
wheat
German Federal Republic 2617
Poland 4629
USSR 381
- Oulema dufischmidi*
distribution, France 4267
Gramineae 4267
taxonomy 4267
- Oulema lichenis*
parasitoids 4632
wheat, German Federal Republic 4632
- Oulema melanopus*
biology 5582
diapause 10331
brome mosaic bromovirus, transmission 4600
cereals
Denmark 6681
Italy 5582
control 5582
distribution, France 4267
Gramineae 4267
Hungary 4600
parasitoids 7882
taxonomy 4267
tobacco, Ontario 7882
triticale, resistance 10555
wheat
resistance 10575
USSR 4621, 10556
- Oulema oryzae*
biology 4574
China 6551
food plants 4574
parasitoids 6551
- Oulema tristis*, biology 5358
- Oviposition deterring pheromones**
Pieris rapae 8680
Rhagoletis pomonella 548
Scelionidae 2452
Tephritis bardanae 6666
- Ovomermis sinensis*, control, *Mythimna separata* 3655
- Oxadiazon**
nontarget effects, soil arthropods 1731
residues, lakes 5217
- Oxalic acid**, oviposition deterrents, *Delia radicum* 8675
- Oxalis*, habitats, invertebrates, USSR 3420
- Oxalis articulata*, *Tetranychina harti*, Greece 3633
- Oxalis corniculata*, *Tetranychina harti*, Greece 3633
- Oxalis pes-caprae*, *Trichogramma platneri*, food preferences 10719
- Oxamyl** (methyl 2-(dimethylamino)-N-[(methylamino)carbonyl]oxy]-2-oxoethanimidothioate)
control
Listronotus bonariensis 469, 1518
Phytonemus pallidus 11781
tomatoes, insect pests 4904
Viteus vitifoliae 10682
detection 3442
effects, *Lyonetia speculella* 9689
Leptinotarsa decemlineata 4903
- Oxamyl** cont.
nontarget effects, mammals 8109
residues, plants 3442
resistance, *Phyllonorycter blancardella* 8603
toxicity, *Anthurium andraeanum* 780
translocation, barley 7171
uptake, rice 5634
- Oxya*, genetics 8321
- Oxya chinensis*
biology 3685
control, insecticides 3685
rice, China 3685
- Oxya hyla hyla*
ecology, population dynamics 3469
Pakistan 3469
parasitoids 3469
- Oxya hyla intricata*, rice, China 3685
- Oxya intricata* (see *O. hyla intricata*)
- Oxya multidentata* (see *O. hyla hyla*)
- Oxya nitidula*, *Leptus oxyae*, interactions 2144
- Oxya yezoensis*
ecology 3711
Japan 7471
morphology 7471
rice, Japan 3711
- 1,1'-Oxybis[2,3,3,3-tetrachloropropane]**, residues, textiles 6020
- Oxycarenus hyalinipennis*
biochemistry, amino acids 5338
biology
behaviour 11520
development 6055
environmental factors 4940
cotton, India 4940
physiology, water relations 11351
plant extracts, effects 11520
Prosopis juliflora 11520
seeds 6055
- Oxycetonia jucunda*
attractants 5772, 7169
Japan 5772
monitoring, traps 5772
plant extracts, effects 7169
- Oxycetonia versicolor*, onions, India 8753
- Oxychlorane**, residues, human milk 2018
- Oxydemeton-methyl** (S-[2-(ethylsulfinyl)ethyl] O,O-dimethyl phosphorothioate)
control
Aleurocanthus woglumi 8648
Amrasca biguttula 601, 2793
Amrasca devastans 3840, 11771
Aphididae 3662
Bagrada hilaris 5795
Lipaphis erysimi 619, 1627, 6874
Myzus persicae 1691
Nasonovia ribisnigri 597
Pemphigus populitransversus 4826
Pseudotsuga menziesii, insect pests 5998
Rhopalosiphum maidis 3664
effects
man 9079
Saintpaulia ionantha 9908
mixtures
control, *Myzus persicae* 8743
effects, *Saintpaulia ionantha* 9908
nontarget effects, predatory insects 3662
toxicity
Aphis craccivora 672
Lipaphis erysimi 6872
man 8099
Myzus 6920
with trichlorfon, nontarget effects, algae 11401
- Oxydia cloeziana*, biology 7922
- Oxydia vesulia*
coffee, Puerto Rico 3949
Eucalyptus cloeziana, Brazil 7922
morphology 3949
- Oxyopes salticus**
biology, behaviour 8340
cotton, fields, Texas 4925
ecology 3889
groundnuts, fields, Texas 3889
predators 8340
prey
arthropods 3889
- Oxyopes salticus** cont.
prey cont.
insects 8340
Psallus seriatus 4925
- Oxyopidae**
ecology 3889
groundnuts, fields, Texas 3889
prey, arthropods 3889
- Oxyporinae**, taxonomy 10755
- Oxyporus guerreroanus*, fungi, Mexico 10755
- Oxyporus lawrencei*, fungi, Mexico 10755
- Oxyporus mexicanus*, fungi, Mexico 10755
- Oxypterus*, USA 9149
- Oxypterus acuminata*, taxonomy, from *Phaenops* 9149
- Oxypterus atropurpurea*, taxonomy, from *Phaenops* 9149
- Oxypterus consoputa*, taxonomy, from *Phaenops* 9149
- Oxypterus notata*, taxonomy, from *Phaenops* 9149
- Oxyrhachis*, prey, Araneae 8349
- Oxyrhachis tarandus*
physiology
enzymes 5289
water relations 11351
- Oxythioquinox** (see *Chinomethionat*)
- Oziotelphusa senex senex*
fresh water, India 2049
insecticides, effects 2049
- Ozone**
effects
insects 5809
Plagioderma versicolora 5929-5930
Rhopalosiphum padi 3665
- Pachliopta**, taxonomy, subgenus, of *Atrophaneura* 3231
- Pachliopta aristolochiae*, pathogens 9007
- Pachnaeus litus*
biology, environmental factors 4777
Citrus 4777
Florida 4777
- Pachnaeus opalus*
biology, environmental factors 4777
Citrus 4777
Florida 4777
- Pachycrepoides vindemmiae*
biology 6543
hosts, *Exorista sorbillans* 6543
- Pachygnatha clerki*
biology, behaviour 3691
prey, Delphacidae 3691
rice, fields, Korea Republic 3691
- Pachylaelaps catharsiae*
Catharsius pithecius, interactions 2144
India 2144
taxonomy, new species 2144
- Pachylobius picivorus*
attractants 8896
monitoring, traps 8896
North Carolina 1931
pathogens 1931
Pinus sylvestris, Wisconsin 8896
- Pachymerus**
biology, behaviour 8968
Palmae, commodities, Brazil 8968
- Pachynematus**
biology 7589
cereals, Poland 7589
- Pachynematus montanus*
distribution, UK 3987
forest trees 3987
- Pachyneurini**, taxonomy 3561
- Pachyneuron aphidis*
biology 3927
hosts, *Binodoxys communis* 3927
- Pachyneuron concolor* (see *P. muscarum*)
- Pachyneuron muscarum*
forests, Hungary 8851
hosts, *Dendrolimus pini* 8851
- Pachynomada**
hosts, *Andrena* 3226
taxonomy 3226
- Pachyonyx quadridens*
biology 2976
Butea monosperma, India 2976
parasitoids 2976
- Pachypasa otus**
Europe 7321
genetics, chromosomes 7321

- Pachypasa otus** *cont.*
morphology, eggs 7321
- Pachyrrhizus erosus**, extracts, toxicity,
Spodoptera litura 6163
- Pacific Islands**
arthropod pests, maps 6454-6455,
6457-6458
Chaetanaphothrips orchidii 6459
Coccoidea 7273
Coleoptera 4384
insect pests, maps 6456
Orthoptera 191
pest control, information 5149
Sternonchetus mangiferae 6460
- Pacific Region**, crops, arthropod pests 3416
- Pacylobius picivorus**
attractants 5949
biology 5949
monitoring, traps 5949
Pinus sylvestris, Wisconsin 5949
- Padan** (*see* Cartap)
- Padus asiatica**, *Gonioctena rubripennis*,
China 9941
- Padus racemosa**, *Nematus*, USSR 4734
- Paecilomyces**, hosts, *Nezara viridula* 8971
- Paecilomyces cicadae**, hosts, insects 5118
- Paecilomyces farinosus**
hosts
Choristoneura fumiferana 8993
Cydia pomonella 8610
Heteropsylla cubana 820
insects 3097, 5118
pathogens 11083
soil, Finland 6099
- Paecilomyces fumosoroseus**
biology 3099
culture techniques 3098
hosts
Bombyx mori 9478
Cossus cadambae 1799
insects 3097
Plutella xylostella 10057
soil, Finland 6099
- Paecilomyces javanicus**, hosts, insects 5118
- Paederia scandens**, *Acyrthosiphon nip-
ponicus* 2467
- Paederus fuscipes**
biology 3693, 5656
behaviour 8509
habitats, China 5656
insecticides, effects 5486
prey
rice
arthropod pests 3693
insect pests 8509
rice, fields, China 3693, 8509
- Pagria signata** (*see* *Colposcelis signata*)
- Pagurus bernhardus**, insecticides, residues
8108
- Pak-choi** (*see* Chinese cabbages)
- Pakistan**
Acrididae 3469
Aiolopus thalassinus, parasitoids 2404
Aleurocanthus woglumi, natural ene-
mies 2759
Aleyrodidae, parasitoids 9147
Amrasca devastans 5779
Bactrocera cucurbitae 5760
Bissetia steniella 5588
Ceratosen marchali, parasitoids 2754
cotton
insect pests 10864
Lepidoptera 9879
crops, insect pests 4604
Euproctis lunata 796
Helicoverpa armigera 2848, 7532
Isoptera 863, 1794, 4917
jute
arthropod pests 2928
Lepidoptera, natural enemies 1744
Kerria Sindica 11494
mangoes
insect pests 5769
insecticide residues 5769
Myzus persicae 10713
Odontotermes lokanandi 2527
Papilio demoleus, parasitoids 513
pest control 4603
pesticides, usage 984
Phyllocephalinae 2588
Phyllocnistis citrella 5753
- Pakistan** *cont.*
Plutella xylostella, parasitoids 225
Quadraspidiotus perniciosus, predators
11652
Schistocerca gregaria 5412
Scirpophaga 440, 5655
Scirtothrips dorsalis 5889
Sitobion avenae 5605
stored products pests 6025
sugarcane
arthropod pests 7586
Hemiptera 4611
Syllepte derogata 755
Termitidae 11043
Thrips tabaci 4897
Urentius hystericellus 10865
wheat, commodities, insect pests 11027
- Palaearctic Region**
Cecidomyiidae 5250
Diptera
books 5232
parasitoids 2519
Ectoedemia 840
Glyphina 5000
Myrmecozelinae 11253
Nymphalidae 9155
Trypodendron 5269
- Palaeomymar**, forest litter, Quebec 8846
- Palaquium formosanum**, *Erthesina fullo*,
Taiwan 7069
- Palarus**
distribution, Saudi Arabia 232
taxonomy 232
- Palau**, *Eupatorium odoratum*, natural ene-
mies 8433
- Palembus**, taxonomy, synonyms, of *Ulo-
moides* 8198
- Palembus dermestoides**
biology, development 6026
stored products 6026
- Paleoacanthoscelides**, taxonomy, from
Acanthoscelides 3429
- Pales ferruginea**, morphology, spermat-
ocytes 1050
- Pales pavidus**
forests, Hungary 8851
hosts, *Dendrolimus pini* 8851
- Palexorista**
hosts
Parasa viridissima 1542
Rivula 8713
Nigeria 1542
soyabeans, fields, India 8713
- Palexorista laxa**
hosts, *Helicoverpa armigera* 3944
tobacco, fields, Zimbabwe 3944
- Palexorista solennis**
hosts, *Homona coffearia* 9904
tea, plantations, India 9904
- Palicourea**, *Paraphytoptus palicoureae*,
Guyana 11827
- Pallodes austrinus**
fungi 600
taxonomy, new species 600
- Pallodes pallidus**, fungi 600
- Palm kernel oil**, effects, *Sitophilus zeamais*
4065
- Palm oils**
effects, *Dermestes maculatus* 6017
toxicity, *Sitophilus zeamais* 7102
- Palmae**
Chrysomphalus aonidium 6458
commodities, Bruchidae, Brazil 8968
Diaspis echinocacti 4710
habitats, invertebrates, Peru 8922
Lincus, Peru 2699
- Palmitic acid**
oviposition deterrents, *Delia radicum*
8675
pheromones, *Adoxophyes orana* 6803
- Palomena angulosa**, soyabeans, damage
7804
- Palpifer murinus**, *Colocasia esculenta*,
India 2879
- Palpita unionalis**, Hungary 2371
- Pammene fasciana**
Italy 3097
pathogens 3097
- Pammene juniperana**
biology 4999
distribution, Morocco 4999
- Pammene juniperana** *cont.*
Juniperus thurifera 4999
- Pammene querceti**
distribution, Czechoslovakia 5385
Quercus 5385
- Panama**
Araneae, prey 6554
Argyope argentata 4535
Azteca trigona 11421
Coleoptera 9329
Eciton burchelli 10428
Entheus priassus 10998
Faustinus rhombifer 5861
forests, insects 5042
Isoptera 4548
Neoclytus 8858
Paraponyx diminutalis 8430
Pelidnota hirsutiphallia 7950
Psylloidea, books 10240
Thisbe irenea 2977
vegetables, Acari 1713
- Pandemis**
control, insecticides 1768
pheromones 10274
Quercus, USSR 1768
- Pandemis cerasana**
biology 536
control, insecticides 536
distribution, Switzerland 142
fruit trees, Italy 536
- Pandemis heparana**, parasitoids 4736
- Pandora delphacis**, hosts, Delphacidae
1463
- Panesthia cribrata**, Pacific Islands 191
- Panicum**, *Graminella nigrifrons* 6682
- Panicum abscissum**, *Achurum carinatum*,
Florida 2669
- Panicum hemitomom**, *Achurum carinatum*,
Florida 2669
- Panicum maximum**, Cercopidae, resistance
4679
- Panicum virgatum**, *Rhopalosiphum padi*
5680
- Panolis flammea**
bibliographies 8156
biology 7945
environmental factors 5937
control
insecticides 810
microbial pesticides 5964
ecology
mortality 3011
population dynamics 3044, 7051
food plants 8156
forest trees
UK 5034
USSR 3044
heavy metals, residues 9958
insecticides, pathogenicity 3040
monitoring 7932
traps 3026
natural enemies 8156
parasitoids 3011, 7079, 7505
pathogens 5077
pheromones 3026
- Pinus**
German Federal Republic 7079
UK 3011, 7051
USSR 810
Pinus contorta 5937
UK 3026, 5077, 5964, 7903
Pinus sylvestris 7945
Finland 9958
German Democratic Republic 7932
pollution, effects 7945, 9958
- Panonychus citri**
acaricides, toxicity 9706-9707
Averrhoa carambola, Taiwan 2772
biology 2772
development 4792, 9710
- Citrus**
California 9710
China 5905, 11662
USSR 4783
control 10728
biological control 5905, 11662
insecticides 2772
fertilizers, effects 8649
lemons, Brazil 4792
limes, damage 10733
oranges, California 2768, 8649, 10728

***Panonychus citri* cont.**

predators 2772, 4783, 9424, 9436, 11452

Panonychus ulmi

acaricides

effects 10688
resistance 2737, 4754
toxicity 2739, 5730

apples 5731

Belgium 10706
Brazil 2733, 4748, 10696
British Columbia 5732
Czechoslovakia 11649-11650
Georgia 6991
German Democratic Republic 542, 2740
Italy 5728, 5735, 6811
Korea Republic 8589
New York 2737, 2739, 4754, 5730
New Zealand 552, 6817
Nova Scotia 2738, 4745, 10701
Ontario 4750
Pennsylvania 8585, 8607-8608
Quebec 8612
Switzerland 2742, 3789
USSR 2744
varietal susceptibility 1564
Yugoslavia 11642

biology 4354, 4745, 11625

overwintering 8589

phenology 2733, 6811

Campylomma verbasici*, interactions 5732**Citrus*, Japan 6833**

control 552, 4354

acaricides 520, 2740, 2742, 4732, 8589, 8612, 10689, 10701, 10706, 11642-11643, 11649-11650
models 4745

biological control 537, 4723, 5694, 5728, 5735, 6817

insecticides 2738

integrated control 8628

plant growth regulators 10696

ecology, population dynamics 552, 3789

fruit trees

Ontario 8629
USA 10689
USSR 537, 5694, 11643

fruits 10688

Chile 4732

Spain 4354

grapes

Europe 6228
German Federal Republic 10681
Hungary 11625
Italy 520, 4723, 9665
Switzerland 4722

insecticides

effects 5728, 8585
resistance 8629

peaches, Italy 8628

pears, Italy 8621

phosphorus, effects 6991

predators 520, 552, 3789, 4723, 4750, 5728, 6811, 6833, 8344, 9665, 10453, 10681, 10701, 11643

research, conferences 10214

roses 6991

sampling 4722, 4748, 5731

Panorpa communis

apples, orchards, USSR 3793

attractants 3793

prey, *Hyphantria cunea* 3793

Panstrongylus megistus*, physiology, reproduction 4331**Pantala***

Cicer arietinum, fields, India 2851

prey, *Aphis craccivora* 2851

Pantana sinica

bamboos, China 9516

biology 9516

Panthous bimaculatus

Ailanthus triphysa, forests, India 10982

prey, Lepidoptera 10982

Pantolytini

Europe 7518

taxonomy 7518

Pantomorus cervinus

biology

behaviour 8644, 10720

environmental factors 4777

***Citrus* 4777**

California 10721

commodities 1912

Florida 8644, 10720

control, fumigants 1912

Florida 4777

radiation, effects 10721

Pantorhytes plutus

cocoa, Papua New Guinea 4950

pathogens 4950

Paoliella harteni

Angola 11799

parasitoids 11799

PAP (see Phenthoate)***Papaipema nebris***

biology 9549

control, insecticides 8489

ecology, distribution 8494

food plants 9549

Iowa 8494

maize, Ohio 8489

sampling 8494

Papaver dubium*, *Phyllotreta nemorum

2784

Papaver rhoeas

insects, pollination 6993

Phyllotreta nemorum 2784

Papaveraceae

Cynipidae, Spain 4988

extracts, repellents, *Leptinotarsa*

decemlineata 6922

Papaya ringspot potyvirus*, vectors, *Aphis

spiraecola 6852

Papayas* (see Pawpaws)*Paper**

insect pests

biology 1896

control 1896

Papilio aegaeus aegaeus

biology, diapause 1151

New South Wales 1151

physiology, pigments 1074

Papilio alexiares garcia

food plants, Mexico 10896

Papilio glaucus group, hybridization

10896

Papilio aristolochiae* (see *Pachliopta

aristolochiae)

Papilio bairdi oregonius*, genetics, mutations 10318**Papilio demodocus***

distribution, maps 6457

food plants 6457

Papilio demoleus

biology

behaviour 3819

development 9219

phenology 513

Citrus

India 2761

Pakistan 513

Citrus limettoides 3819

diets 3819

parasitoids 513, 2761

Papilio glaucus

evolution 6661

food plants 10967

phenolic compounds, effects 10967

Papilio glaucus australis

biology 6661

food plants 6661, 10967

Magnolia virginiana, Florida 6661

phenolic compounds, effects 10967

Papilio glaucus canadensis

biology, behaviour 2319

food plants 6661, 10967

North America 6661

phenolic compounds, effects 10967

physiology, enzymes 788, 10968

plant extracts, effects 7952

Populus tremuloides, USA 7952

Prunus serotina 10968

secondary metabolites, effects 10968

Wisconsin 2319

Papilio glaucus glaucus

food plants 10967

Papilio pilumnus, hybridization 4003

***Papilio glaucus glaucus* cont.**

phenolic compounds, effects 10967

physiology, enzymes 788, 10968

plant extracts, effects 7952

Populus tremuloides, USA 7952

Prunus serotina 10968

secondary metabolites, effects 10968

***Papilio glaucus* group, *Papilio alexiares*,**

hybridization 10896

***Papilio glaucus* × *P. pilumnus*, food**

plants 4003

Papilio machaon

biology 3366

reproduction 4368

cold resistance 123

Italy 3366

Japan 123

Papilio oregonius

Compositae, Washington 4345

genetics, chromosomes 4345

Papilio palamedes

Florida 6661

food plants 6661

***Papilio pilumnus*, *Papilio glaucus*, hybrid-**

ization 4003

Papilio polytes

Citrus, India 2761

parasitoids 2761

Papilio polyxenes

allelochemicals, effects 1063

biology, behaviour 6421

food plants 3829, 6421

morphology 11294

parsley 3152

physiology, enzymes 1063, 3152

plant extracts, effects 3152, 3829

***Papilio protenor*, plant extracts,**

attractants 7750

Papilio rutulus

food plants 6661

North America 6661

Papilio troilus

Florida 6661

food plants 6661

Lindera melissifolia, Mississippi 2941

Papilio ulysses

biology, behaviour 8436

Stachytarpheta mutabilis, Papua New

Guinea 8436

Papilio xuthus

biology, diapause 7522

China 8035

cold resistance 123

control, microbial pesticides 8035

Japan 123

morphology, prothoracic glands 8217

parasitoids 7522

physiology, senses 10301

Papilio zelicaon

Angelica lucida, Washington 5568

biology 5568

food plants, California 3358

genetics

chromosomes 4345

population genetics 3358

parasitoids 2456

Umbelliferae, Washington 4345

Papilionidae

British Isles 1003

distribution

British Columbia 10361

India 7443

Switzerland 159

morphology, wings 2167

physiology

enzymes 2198

pigments 1074

Spain 1177

taxonomy 1003

Papilioninae*, morphology, wings 2167**Papilionoidea***

distribution, Europe 8276

ecology, conservation 7906

forest trees, Spain 7906

Spain 2343

Paprika* (see *Capsicum annum*)**Papua New Guinea***

Acari, research workers, directories

6232

Aleurodicus dispersus 3826

Arpactophilus 11

- Papua New Guinea cont.**
 Coccinellidae 10868
 forest litter, invertebrates 11010
 Geotrupinae 9332
 Hemerobiidae 229
 Isoptera 831
Microcerotermes papuanus 11478
 oil palms, research, reports 9134
Oliarus 11681
Pantorhytes plutus, pathogens 4950
 plants, Acari 7909
Polyrhachis 5434
Tarophagus 3910
- Papuana uninodis**, pathogens 893
Paraamblyseius, taxonomy 1040
Paraamblyseius crassipes
Eichhornia crassipes 1040
 taxonomy, new species 1040
Parabemisia myricae
 biology 2758
 behaviour 11667
Citrus, Turkey 2758
 distribution, maps 6455
 lemons 11667
 morphology, mouthparts 3252
- Paracantha gentilis**
Cirsium
 California 6647
 USA 11503
 morphology, developmental stages 6647
 parasitoids 11503
- Paracarophenax ipidarius**
 hosts, *Ips typographus* 1836
 Sweden 1836
- Paracentrobia**
 hosts, Hemiptera 8514
 rice, fields, India 8514
- Paraceraprocetus italicus**, taxonomy,
 synonyms, *Anicetus brevicaudatus*
 2459
- Paracheyletia hortensis**
 apples, habitats, USSR 12017
 taxonomy, new species 12017
- Parachlorophenylalanine-methylester**,
 effects, *Acheta domesticus* 9306
- Paracoccus burnerae**
 parasitoids 3509
 South Africa 3509
- Paradasynus rostratus**
 biology 10742
 coconuts, India 6783
 guavas 10742
- Paradiplosis tumifex**
Abies balsamea, Quebec 5972
 pathogens 5972
- Paradirpha**, America 10690
Paradirpha boudinoti
 America 10690
 food plants 10690
 taxonomy, new species 10690
- Paradirpha copea**
 America 10690
 taxonomy 10690
- Paradirpha semirosea**
 America 10690
 food plants 10690
 taxonomy 10690
- Paradirpha valverdei**
 America 10690
 food plants 10690
 taxonomy, new species 10690
- Paradoxaphis aristoteliae**
Aristotelia serrata, New Zealand 4963
 taxonomy, new species 4963
- Paraffin** (see Kerosene)
- Paraguay**
Conotrachelus denieri 8434
 cotton
 arthropods 7880
 insect pests 8782
 Formicidae 10425
 soybeans, insect pests 3880
- Paraleucoptera**, *Populus*, Poland 7953
- Paraleucoptera sinuella**
 parasitoids 5982
Populus alba, China 5982
- Paralimna**
 Australia 4
 taxonomy 4
- Parallelia algira** (see *Dysgonia algira*)
- Parallelia stuposa**
 fruit trees, Korea Republic 3747
 monitoring, traps 3747
- Paralpenus**
 Africa 2132
 taxonomy, new genus 2132
- Paralpenus flavicosta**, taxonomy, from
Amsacta 2132
- Paramyelois transitiella** (see *Amyelois
 transitiella*)
- Paranapiacaba tricineta**
 physiology, enzymes 9170
 taxonomy 9170
- Parandrinae**, Taiwan 4395
- Paranthrene**
 taxonomy 4252
 Yugoslavia 4252
- Paranthrene asilipennis**
 attractants 8875
 biology, seasonal fluctuations 8875
 habitats, Georgia 8875
- Paranthrene diaphana**, *Salix alba*, Yugo-
 slavia 4252
- Paranthrene dollii**, rearing techniques
 5003
- Paranthrene simulans**
 attractants 8875
 habitats, Georgia 8875
- Paranthrene tabaniformis**
 biology, behaviour 7406
 control, insecticides 5917
 parasitoids 3020
Populus
 Netherlands 3020, 4430
 USSR 7406
Populus canadensis, Netherlands 5917
 rearing techniques 4430
 Yugoslavia 4252
- Paranthrene tabaniformis kungessana**,
 morphology, sense organs 6281
- Paraaxon** (diethyl 4-nitrophenyl
 phosphate)
 metabolism
 mites 10437
 rats 2025
 resistance, *Lygus hesperus* 11166
 toxicity, vertebrates 11211
- Parapediasia teterella**
 attractants 10640
 biology, reproduction 8525
 grasses 8525
Poa pratensis, Kentucky 10640
- Paraphytomyza luteoscutellata**
 control, insecticides 8806
Lonicera, USSR 8806
- Paraphytoptus jujubae**
 taxonomy, new species 10738
Ziziphus sativa, India 10738
- Paraphytoptus palicoureae**
Palicourea, Guyana 11827
 taxonomy, new species 11827
- Paraphytoseius** (see *Amblyseius*)
- Paraphytoseius cracentis** (see *Amblyseius
 cracentis*)
- Paraphytoseius multidentatus** (see
Amblyseius multidentatus)
- Parapiptadenia rigida**, *Oncideres*, Brazil
 5944
- Paraponera clavata**
 biology, behaviour 2414, 5431
 Costa Rica 5431
- Parapoynx**
 aquatic plants, German Democratic
 Republic 4262
 taxonomy 4262
- Parapoynx diminutalis**
 food plants 8430
Hydrilla verticillata, America 8430
Nymphoides cristatum, India 1405
- Parapoynx stagnalis**, rice, India 3712
- Paraquat**
 effects, *Beauveria bassiana* 5110
 mixtures, effects, *Neochetina
 eichhorniae* 8431
 nontarget effects, rice, insect pests 8505
 toxicity
Drosophila 10314
Heterorhabditis bacteriophora 8981
- Pararge aegeria**
 biology
 development 11362
- Pararge aegeria cont.**
 biology cont.
 reproduction 4368
 UK 11362
- Parasa consocia**, parasitoids 2464
- Parasa lepida**
 coconuts, India 6783
 crops, Asia 6454
 distribution, maps 6454
- Parasa viridissima**
 natural enemies 1542
 oil palms, Nigeria 1542
- Parasaissetia nigra**, ornamental plants,
 Egypt 776
- Parasarcophaga uliginosa**
 distribution, UK 5954
 ecology 5954
 hosts, *Euproctis chrysorrhoea* 5954
 taxonomy 5954
- Paraserianthes falcataria**
 forests, Hymenoptera, India 10980
- Pteroma plagiophleps**, India 10980
- Parasetigena silvestris**
 forests, Massachusetts 11810
 France 4016
 hosts, *Lymantria dispar* 4016, 11810
- Parasierola nephantidis** (see *Goniozus
 nephantidis*)
- Parasitaphelenchus oldhami**
 bacteria, interactions 1852
 hosts, *Hylurgopinus rufipes* 1852
- Parasites**, evolution, reviews 1284
- Parasitism**, determination 7079
- Parasitoids**
Amaranthus retroflexus, habitats, Que-
 bec 6652
 apples, orchards, India 8601
Baccharis halimifolia, interactions
 1391
 behaviour
 evolution 2506
 models 2505
 bibliographies 7248
 biology 252
 behaviour 2496, 2501, 4477, 5451,
 6588, 7512
 environmental factors 6441
 sex ratio 10468
 British Isles 6568
Citrus, orchards, India 11660
 coconuts, plantations, India 9650
 control, *Lymantria obfuscata*, evalua-
 tion 5245
 data banks, catalogues 4237
 detection 10561
 distribution, Victoria 10826
 ecology 2497, 4463
 models 1310, 2500
 population dynamics 279, 4681,
 8437, 10445
 reviews 7501
 field crops, habitats, German Federal
 Republic 7260
 fields, Spain 9440
 forests
 Hungary 10002
 Italy 5932
 Oregon 9976
 USSR 3043, 4029
 Gramineae, habitats, India 9527
 grapes, habitats, New York 11623
 greenhouses, Italy 11779
 habitats 8163
 insecticides, effects 4597
 kale, fields, USA 5789
 maize, fields, Italy 11609
 mangoes, orchards, India 11680
 meadows, German Federal Republic
 4681
 monitoring, traps 4681, 6568
 Nicaragua 9454
 oranges, orchards, South Africa 4779
 orchards, USSR 4728, 4730
 pesticides, nontarget effects 9035
 physiology, reproduction 11456
 pollution, effects 5923
 potatoes, fields 10826
 preparation 10388
 rearing techniques 255, 6229
 release techniques 6229
 rice, fields, Puerto Rico 9596

Parasitoids cont.

- sampling 1206
- soyabeans, fields, Puerto Rico 9804
- Spain 4569
- taxonomy 6568
- tea, plantations, India 2935
- tomatoes, fields, California 9851
- tropics 2497
- vegetation, effects, reviews 9434
- vineyards, Austria 6792
- weeds, habitats, Florida 6649
- woody plants, habitats, Brazil 5021

Parasitorhabditis autographi, hosts, *Dryocetes autographus* 6085***Parasitorhabditis obtusa***, hosts, *Ips perurbatus* 6085***Parasitus bituberosus***

- biology, food preferences 8668
- control, *Heteropeza pygmaea*, evaluation 8668

- prey, invertebrates 8668

Parasitylenchus, hosts, Scolytidae 8848***Parasitylenchus orthotomici***, hosts, *Orthotomicus angulatus* 11797***Paratanus exitiosus***

- monitoring, traps 6890
- soyabeans, Argentina 6890

Paratheresia claripalpis

- control, *Eldana saccharina* 1422
- hosts, Lepidoptera 3517
- rearing techniques 3517
- sugarcane, plantations, South Africa 1422

Parathion (*O,O*-diethyl *O*-(4-nitrophenyl) phosphorothioate)

control

- Aphididae 1432
- Coleoptera 1698
- Cydia molesta* 5729
- Drosicha mangiferae* 7759
- Nasonovia ribisnigri* 597
- Quadraspidiotus ostreaeformis* 5719

- Sitodiplosis mosellana* 9536
- soyabeans, insect pests 6898
- vegetables, Acari 1713

degradation

- bacteria 2005
- Flavobacterium* 11183
- Porocentrum micans* 6171
- soil 7225

detection 9089

determination 9033, 10146

effects

- arthropods 2623
- Colinus virginianus* 969
- parasitoids 217
- Tetranychus urticae* 4184

metabolism, rats 2026

mixtures, control, *Quadraspidiotus ostreaeformis* 5719

nontarget effects 6700

- Aphididae, predators 1432
- Apis mellifera* 962
- aubergines 5864
- Carabidae 368
- man 9071, 9073

photolysis 11150

residues, fog 10149

resistance

- Plutella xylostella* 5186
- Rhizoglyphus robini* 11748

toxicity

- Acrida exaltata* 186
- Earias vittella* 5194
- fishes 8123
- Heterorhabditis bacteriophora* 8981
- Macrocentrus linearis* 7511

Parathion-ethyl (see Parathion)**Parathion-methyl** (*O,O*-dimethyl *O*-(4-nitrophenyl) phosphorothioate)

control

- Aspidiotus destructor* 10666
- Atherigona* 416
- aubergines, insect pests 11757
- Bruchus pisorum* 3877
- Cajanus cajan*, insect pests 5825
- cotton, insect pests 742
- Crematogaster dohrni* 3954
- Cydia pomonella* 545
- Drosicha mangiferae* 5764

Parathion-methyl cont.

control cont.

- Empoasca kraemeri* 9784
- Hypera postica* 8791
- Liriomyza trifolii* 11782
- Listronotus texanus* 2861
- Lobesia botrana* 8565, 9660
- Myllocerus nigrosuturalis* 4766
- Oebalus pugnax* 9597
- Oides scutellata* 8574
- onions, insect pests 8750
- Quadraspidiotus perniciosus* 8580
- rape, insect pests 6865
- soyabeans, insect pests 3880
- wheat, insect pests 382, 2618
- Wiseana* 6755

degradation

- bacteria 11216
- crops 4814
- detection 5203
- determination 10146

effects

- birds 4188, 10130
- Cheletogenes ornatus* 5749
- insects 110
- Nilaparvata lugens* 422
- Oziotelphusa senex* 2049
- sorghum 2034, 2668
- Tribolium castaneum* 8088

extraction, water 2057

mixtures

control

- Metaceronema japonica* 8652
- onions, insect pests 8750
- Selenaspis articulatus* 9715
- nontarget effects, predatory insects 9715
- toxicity, *Heliothis virescens* 2921, 11976

nontarget effects

- fishes 6193
- predatory insects 2618
- Trissolcus basalis* 6896

residues

- air 5635
- Apis mellifera* 962
- determination 9349
- grapes 4719
- textiles 8933, 11200
- water 9349

resistance

- Heliothis virescens* 2915
- Plutella xylostella* 5186
- Rhizoglyphus robini* 11748

synergism 2921

toxicity

- Bemisia tabaci* 6974
- Chelonus blackburni* 1280
- Chilo partellus* 5615
- fishes 8123
- Helicoverpa zea* 11768
- Heliothis virescens* 2921
- Hymenoptera 10458
- Leptocorisa acuta* 11178
- maize 416
- Meloidae 3842
- Mylabris phalerata* 10808
- Noctuidae 2914
- Pinnaspis aspidistrae* 5749
- Platynota idaeusalis* 6813
- Pteroma plagiophleps* 8890
- Rhizoctonia solani* 11193
- Scirpophaga incertulas* 432
- Spilosoma obliqua* 7783, 10114
- Spodoptera frugiperda* 404, 11919
- Spodoptera litura* 9590

with carbaryl, control, *Hieroglyphus banian* 3713**Paratrechina longicornis**

biology, behaviour 6516

Brazil 6516

coconuts, plantations, Sri Lanka 3757

hosts, *Opisina arenosella* 3757**Paratrechina terricola**

monitoring, traps 8324

Texas 8324

Paratrechina vividula, *Solenopsis invicta*,

interactions 362

Paratriophtydeus coineau

control, insecticides 11876

oats, commodities, Manitoba 11876

Paratylenchus, biological control agents, evaluation 6108**Paravespula germanica** (see *Vespula germanica*)**Paravespula vulgaris** (see *Vespula vulgaris*)**Parboiling**, effects, rice, commodities 855**Pardosa**, physiology, reproductive organs 4330**Pardosa birmanica**, groundnuts, fields, India 8722**Pardosa lugubris**, morphology 3541**Pardosa pauxilla**

- ecology 3889
- groundnuts, fields, Texas 3889
- prey, arthropods 3889

Pardosa pseudoannulata

- ecology, population dynamics 11556
- prey, Hemiptera 11556
- rice, fields, China 11556

Pardosa ramulosa

monitoring, traps 9593

prey

- insect pests 9593
- rice, insect pests 4672
- rice, fields, California 4672, 9593

Parechthodryinus clavicornis, taxonomy, synonyms, *Tyndarichus oculomerus* 2459**Parechthodryinus cylococculi**

- forests, California 1861
- hosts, *Xylococcus macrocarpa* 1861
- taxonomy, new species 1861

Parena rufotestacea

biology 5489

prey, insects 5489

Parepisparis, taxonomy 11803**Parepisparis virgatus**

- Eucalyptus macrorhyncha*, New South Wales 11803

taxonomy, new species 11803

Pareuchaetes pseudoinsulata

- control, *Eupatorium odoratum* 2571, 5559, 8433

Mariana Islands 5559

Micronesia 8433

South Africa 2571

Pargyline, effects, *Acheta domesticus* 9306**Parides bunichus***Aristolochia triangularis* 3829

plant extracts, effects 3829

Parkia, *Platypus parallelus* 6456**Parks***Orsillus depressus*, Europe 1878

pests, Singapore 10887

Parlatoria blanchardii

dates, Libya 1545

natural enemies 1545

Parlatoria pergandii

Citrus, Cuba 9712

parasitoids 9712

Parlatoria zizyphi

biology 7749

Citrus, China 7749

control, insecticides 7749

natural enemies 7749

Parlatoria zizyphus (see *P. zizyphi*)**Parna kamijoi**

distribution, Poland 4038

forest trees 4038

Parna tenella

distribution, Poland 4038

forest trees 4038

Parnara guttatus

control 5651

food plants, Japan 6750

physiology, reproductive organs 9578

rice, China 5651

Parnara mathias (see *Pelopidas mathias*)**Parnassiinae**, morphology, wings 2167**Paromalus parralepipedus**

biology 4979

Pinus sylvestris, forests, Poland 4979*Tomicus piniperda*, interactions 4979**Paromius**, rice, Bhutan 7642**Paropsis atomaria***Eucalyptus blakelyi* 5958

terpenoids, metabolism 5958

Parornix

New England 1330

parasitoids 1330

- Paroudablis**
Romania 7311
taxonomy 7311
- Parrhinotermes aequalis**
Malaysia 8230
physiology, secretions 8230
- Parrhinotermes pygmaeus**
Malaysia 8230
physiology, secretions 8230
- Parsley** (*Petroselinum crispum*)
Autographa gamma, UK 8808
damage 4876
Papilio polyxenes 3152, 3829
- Parsnips** (*Pastinaca sativa*)
Chauliognathus marginatus, Maryland 4091
Depressaria pastinacella 10813
fields, *Dolichovespula saxonica*, UK 2492
Papilio polyxenes 3829
- Parsonsia straminea**, *Euploea core corinna* 11514
- Parthenium hysterophorus**, Lepidoptera, India 3239
- Parthenocissus tricuspidata**
arthropods, German Federal Republic 3966
habitats, arthropods, Berlin 774
- Parthenolecanium corni**
biology 524, 11523
control 524
food plants, Poland 5068
fruits, USSR 524
gooseberries, USSR 10677
parasitoids 5068
Thymus, Italy 11523
- Parthenolecanium persicae**
parasitoids 4540
USSR 4540
- Parus atricapillus**, prey, *Eurosta solidaginis* 7568
- Parus major**
prey
bilberries, insect pests 7714
Dendrolimus punctatus 4023
- Passimachus subsulcatus**
ecology, defence 226
Florida 246
physiology, defensive secretions 246
- Paspalum**, *Perkinsiella saccharicida* 6456
- Paspalum conjugatum**, Pyralidae, food preferences 11580
- Paspalum dilatatum**
Apina callisto, Australian Capital Territory 8421
Rhopalosiphum, Queensland 1429
- Paspalum guenoarum**, Cercopidae, resistance 4679
- Paspalum plicatulum**, Cercopidae, resistance 4679
- Passaloecus insignis**, urban areas, Poland 2441
- Passer domesticus**
insect viruses, interactions 872
prey
Helicoverpa armigera 9820, 10059
Hieroglyphus banian 3716
insect pests 872
- Passiflora**, Heliconiini 1097
- Passiflora edulis** (see Passion fruits)
- Passifloraceae**, Heliconiini 1097
- Passion fruits** (*Passiflora edulis*)
Bactrocera tryoni, Queensland 7757
Eueides isabella, Brazil 5755
habitats, beneficial insects, Western Samoa 581
insect pests, Brazil 8335
Nezara viridula, damage 6843
orchards, parasitoids, Brazil 5755
pest control, Australia 9726
Pseudaulacaspis pentagona 10736
Western Samoa 581
- Passionflower** (see Passion fruits)
- Pastinaca sativa** (see Parsnips)
- Pastures**
Acrididae, Spain 2535
Araneae, Belgium 4693
arthropod pests 11255
Australia 6759
damage 10643
Victoria 6760
- Pastures cont.**
arthropods
German Federal Republic 4681
Netherlands 3145
Brachygastra lecheguana, Brazil 6753
Calosoma alternans 11720
Canthon cyanellus, Mexico 9615
Cercopidae, Brazil 4691, 6752, 9616
Costelytra zealandica, New Zealand 471, 6206, 6756, 11597-11598
Cryptostigmata, Spain 7678
Deois flavopicta, Brazil 4690, 5683
Deroceus reticulatum, New Zealand 309
Eudonia sabulosella, New Zealand 3733, 4687
Euphasiopteryx, Florida 6580
Fraus simulans, Tasmania 9119
Grammia blakei, Alberta 464, 8532
habitats
Copidosoma graminis, Australia 5583
invertebrates, Peru 8922
Halotydeus destructor, resistance 6760
Hemiptera, New Zealand 8526
Hodotermes mossambicus, South Africa 2670, 11601
insects, New Zealand 4688
Lepidoptera, New Zealand 5685
Leptinotarsa decemlineata, New Jersey 8997
Listronotus bonariensis, New Zealand 2673, 7681, 11600
Mythimna separata, Japan 5687
Noctuidae, Australia 5583
Odontria striata, New Zealand 466
Onitis alexis, New South Wales 1510
pest control, German Federal Republic 8070
Phyllophaga, North Carolina 1515
Pogonomymex occidentalis, Nebraska 7476
Porasilus barbiellinii, Brazil 5683
Scapteriscus vicinus, Florida 6761
Scarabaeidae, Australasia 11596
Sesiidae, Georgia 8875
slugs
New Zealand 474
Pennsylvania 356
UK 475
Tipulidae, damage 8537
tropics
bibliographies 9114, 12013
pest control 9114
Wiseana, New Zealand 6755, 7682, 11602
Zulia enteriana, Brazil 4686, 6754
Patanga septemfasciata, cereals, Africa 2590
- Patelloa similis**
Gramineae, fields, Brazil 5601
hosts, Noctuidae 5601
- Patrobus septentrionis**, Quebec 6557
- Pauesia**
hosts
Aphididae 2137
insects 7506
morphology 2137
taxonomy 2137, 7506
- Pauesia cedrobii**
hosts, *Cedrobium laportei* 5007
rearing techniques 5007
- Pauesia jezoensis**
distribution, Spain 7506
hosts, *Cinara* 7506
morphology 7506
- Pauesia lachniella**
forests, India 10981
hosts, *Lachnus tropicalis* 10981
taxonomy, new species 10981
- Pauesia laricis**
distribution, Spain 7506
hosts
Cinara 7506
Cinara atrotibialis 10978
morphology 7506
Pinus kesiya, forests, India 10978
- Pauesia orientalis**
forests, India 10981
hosts, *Cinara maculipes* 10981
taxonomy, new species 10981
- Pauesia picta**
distribution, Spain 7506
hosts, *Cinara* 7506
morphology 7506
- Pauesia pini**
distribution, Spain 7506
hosts, *Cinara* 7506
morphology 7506
- Pauesia silvestris**
distribution, Spain 7506
hosts, *Cinara pini* 7506
morphology 7506
- Pauesia unilachni**
hosts, *Schizolachnus pineti* 7506
morphology 7506
Spain 7506
- Paupoda**
Canada 3247
taxonomy, keys 3247
- Paururus juvenicus** (see *Sirex juvenicus*)
- Pausinae**
books 8168
taxonomy 8168
- Paussus javieri**
attractants 10417
biology, behaviour 10417
France 10417
prey, *Pheidole pallidula* 10417
- Pavonia malvacea**, *Dysdercus albofasciatus*, Argentina 2908, 3929
- Pawpaws** (*Carica papaya*)
arthropod pests, Asia 3416
Bactrocera, Hawaii 3081
Bactrocera dorsalis, Hawaii 582
commodities
Bactrocera, Hawaii 8966
Bactrocera cucurbitae 4081
Bactrocera dorsalis 3077, 8963
Hawaii 3078
Ceratitidis capitata 4802
Tephritidae 7116, 11049, 11893
Hawaii 4803
insect pests, Cuba 5548
Oliarus morobensis, Papua New Guinea 11681
Samia cynthia 3589
- Pay-Off** (see Flucythrinate)
- PD-5** (see Mevinphos)
- Pe-tsai** (see Chinese cabbages)
- Peach latent mosaic virus**, vectors, *Myzus persicae* 1568
- Peach mosaic virus**, vectors, *Eriophyes insidiosus* 1568
- Peaches** (*Prunus persica*)
Acari, damage 2694
Achelura bifasciata, damage 3775
Aculus fockewi, China 5947
Anarsia lineatella, damage 8633, 8635
arthropod pests, Italy 11621, 11635-11637
arthropods
sampling 6824
South Carolina 6824
Brachycaudus persicae 4764
Brachycaudus persicaecola 4764
Ceratitidis capitata
Argentina 11614
Brazil 9695
Cicadellidae 1556
economic thresholds 2750
Italy 2750
Coccoidea, Europe 2695
commodities, *Anastrepha suspensa* 3074
Cryptophlebia leucotreta, Africa 3755
Cydia molesta
Chile 4767
China 5729
France 9697
Diaspididae, Israel 488
habitats, invertebrates, Peru 8922
insecticides, residues 9696
Lasioderma serricorne 11638
Lepidoptera, Korea Republic 3747
Mylocerus nigrosuturalis, India 4766
Myzus persicae
Japan 3803
Pakistan 10713
Myzus varians, USSR 562
orchards
Amblyseius andersoni, Italy 2735

Peaches cont.

orchards cont.

Amblyseius victoriensis, New South Wales 220, 8631-8632
beneficial arthropods, Italy 2751
Harmonia axyridis, Japan 3803
Leptothrips mali, Georgia 8634
parasitoids, Chile 4767
predatory arthropods, Queensland 8630

pest control

Europe, conferences 5238
Italy 8628

Phyllonorycter, Italy 3776*Phyllonorycter pomonella*, Italy 6823pollen, diets, *Neoseiulus fallacis* 4497*Pseudaulacaspis pentagona*

Florida 8627
Italy 2751

Pterochloroides persicae, Egypt 4768*Tetranychus kanzawai*, Japan 3748*Tetranychus urticae*, Queensland 8630

Thysanoptera, Georgia 8634

Tortricidae, South Africa 9675

viruses, vectors, arthropods 1568

X disease, vectors, Cicadellidae 1556

Peaches × **almonds**, *Ceratitis capitata*, Argentina 11614**Pealius**

Czechoslovakia 4272
taxonomy 4272

Pealius azaleae

distribution, Czechoslovakia 4272
Rhododendron 4272

Peanuts (see Groundnuts)**Pearl millet** (*Pennisetum americanum*)

Atherigona approximata, India 5632
Chilo partellus 6698

commodities

diets, *Helicoverpa armigera* 9360
insecticides, effects 10022, 11055

Trogoderma granarium, resistance 10024
Coniesta ignefusalis
Senegal 9576
yield losses 420

Holotrichia consanguinea 3683

insect pests, yield losses 2641
insecticides, effects 7615

Mythimna separata 355

Noctuidae, Senegal 3684
pest control, India 4656

products, diets, *Helicoverpa armigera* 9360

Psalydolytta, West Africa 3720

tropics, reports 8154
Pears (*Pyrus communis*)

Acari, damage 2694
Achelura bifasciata, damage 3775

Adoxophyes orana, Switzerland 5723
Archips podanus, USSR 2725

arthropod pests

Belgium 560, 10693
control, integrated control 7737

Italy 8621, 11635
monitoring 7737

Oregon 2748
books 2092

Cacopsylla pyri

Italy 2747, 8622
resistance 1566

Cacopsylla pyricola 9693

economic thresholds 4761
North America 8623

USA 1565, 8624
varietal susceptibility 5739

Washington 9691
Coccoidea, Europe 2695

commodities, *Anastrepha suspensa* 3074
Cydia molesta, China 5729

Cydia pomonella

Belgium 10692
damage 8547

Oregon 2745
Drosophila, Netherlands 9673

Dysaphis pyri, Iraq 5736

Eriophyes pyri, varietal susceptibility 1567

insect pests

control, integrated control 4762
Pears cont.

insect pests cont.

Switzerland 4762
Lepidoptera, Korea Republic 3747

Leucoptera malifoliella, Iran 3749
orchards

Anthocoris, Switzerland 4762
Anthocoris nemoralis, Italy 8622

Metaseiulus occidentalis, California 2693

parasitoids, Netherlands 9673
predatory arthropods, Belgium 560

pest control 2092, 8625
Israel 7737

Italy 6804
pest resistance 2110

Rhagoletis pomonella 6460
Sphecidae, Chile 1340

Stephanitis pyri, Iraq 7731
Tetranychidae 10688

Tetranychus kanzawai, Japan 3748
Tetranychus urticae, Oregon 2746,

6819
Tortricidae, Italy 536

wild plants, *Lymantria dispar*, out-breaks 3012

Zyginella pulchra, Iran 3778
Peas (*Pisum sativum*)

Acyrtosiphon pisum 5809
damage 641-642

economic thresholds 2823
France 4851

German Democratic Republic 5808
Japan 7795

USSR 2823
varietal susceptibility 10794

yield losses 2826
Aphididae, resistance 7551

Aphis craccivora 1602, 2828
arthropod pests, Florida 4166

Bruchus pisorum, USSR 2824, 3877
Chromatomyia horticola

Hungary 9864
India 6871, 7789

commodities

Bruchidae 8969
India 7997

Bruchus pisorum 7090, 8001
Callosobruchus maculatus 11877

diets, *Helicoverpa armigera* 9360
Helicoverpa armigera 7120

Contarinia pisi

varietal susceptibility 647
yield losses 648

Cydia nigricana

Czechoslovakia 3876, 7798
Finland 9486

Delia platura, varietal susceptibility 5801
fields

beneficial insects, USSR 649
parasitoids

Hungary 9864
India 7789

USSR 2587
Frankliniella intonsa 7796

Helicoverpa armigera 4811
India 7797

insect pests

control, cultural control 645
damage 7453

Hungary 11715
India 645, 2825

resistance 1646
USSR 644, 649, 2587

insecticides

application 8700
effects 1634, 1641-1644

residues 586, 5807
Ophiomyia phaseoli, India 646, 3875

pest control
German Federal Republic 7260

India 643
USSR 626

Phyllotreta nemorum 2784
products, diets, *Helicoverpa armigera*

9360
Sitona lineatus 2678

damage 1645, 10793
Thyanta pallidovirens 9792

Peas cont.

Tychius quinquepunctatus, varietal susceptibility 9793

yield losses, models 7453
Pecans (*Carya pecan*)

Acrobasis nuxvorella, USA 4725
Aphididae, South Carolina 11633

Cydia caryana, USA 7719
Homoptera, Georgia 6802

insect pests

biology 5718
control 5718

identification 5718
orchards

beneficial insects, Georgia 6802
predatory insects, Georgia 3774

pest control, Australia 9132
Reticulitermes flavipes, damage 8576

Pechipogo plumigeralis

Italy 9888
monitoring, traps 9888

Pectinophora gossypiella

Aspergillus flavus, interactions 5872
attractants 9872

biology 4938, 6964
behaviour 6435-6436, 6976, 9872

environmental factors 4941, 6963, 10864

phenology 4936
reproduction 4214

China 7523
control 6970, 10862

biological control 6972
cultural control 6973

insecticides 742, 747, 1725, 1730, 3933, 3937, 6960, 7853, 7876-7877, 9877, 10857, 10863, 11773

mating disruption 6976
trapping 4941, 9879

cotton 6963, 9872
Arizona 4936, 4938

Brazil 6960
California 6976

China 3926, 3930
damage 5872

Egypt 1730, 10857
India 747, 1725, 1743, 2911, 2920,

3933, 3937, 4941, 6970, 6972-6973, 7853, 7876-7877, 8780, 9877, 10863, 11451, 11773

Ivory Coast 8774
Mexico 742

Pakistan 9879, 10864
Paraguay 8782

resistance 1738, 7854
USA 6971, 10862

damage, determination 3930
ecology, distribution 3926

forecasting 2920
genetics 6436

artificial selection 2218
reviews 6964

growth regulators, effects 4214
India 244

insecticides, toxicity 10855
monitoring, traps 2920, 4936, 8774

mushrooms, extracts, toxicity 8074
parasitoids 244, 1743, 6971-6972, 11451

pheromones 2218, 6435-6436, 9879
predators 7523

radiation, effects 6964
rearing techniques 6964

sampling 3926, 10210
Pectinophora scutigera 6456

distribution, maps 6456
food plants, Queensland 5871

taxonomy 5871
Pectocarya recurvata, Formicidae 4458

Pectolinarigenin, antifeedants, *Sitophilus oryzae* 430

Pedicularis semibarbata, *Occidryas editha*, California 5555

Pediobius

hosts, *Cydia leucostoma* 2935
tea, plantations, India 2935

Pediobius acantha

greenhouses, Italy 11779
hosts, Agromyzidae 11779

- Pediobius elasmii***
hosts, *Bessa remota* 2701
Malaysia 2701
- Pediobius foveolatus***
biology 630
reproduction 5461
hosts
Epilachna ocellata 2812
Epilachna varivestis 5461
Epilachna vigintioctomaculata 3914
Epilachninae 630
morphology 6559
Solanum, fields, Korea Republic 3914
- Pediobius imbreus***
biology, reproduction 10668
India 10668
- Pediobius ptychomyiae***
hosts, *Bessa remota* 2701
Malaysia 2701
- Pediobius pyrgo***
biology 5982
forests, China 5982
hosts, *Paraleucoptera sinuella* 5982
- Pedrocortesella montis***
Prosopis flexuosa, litter (plant), Argentina 11833
taxonomy, new species 11833
- Peganum harmala***, extracts, toxicity, Mol-lusca 6612
- Pegomya***
biology, diapause 9752
fungi 4817
Leccinum, Finland 9752
parasitoids 5464
Silene maritima, UK 5464
- Pegomya betae***
German Democratic Republic 28
models 28
parasitoids 5464
physiology, development 28
sugarbeet, UK 5464
- Pegomya hyoscyami***
control, integrated control 4160
fodder beet, Poland 4875
parasitoids 5464
Silene maritima, UK 5464
sugarbeet, German Federal Republic 4160
- Pegomya hyperparasitica***
biology 3610
Boschniakia hookeri, Washington 3609-3610
taxonomy, new species 3609
- Pegomya scapularis***
biology, diapause 9752
Leccinum, Finland 9752
- Pegomya transgressa***
biology, diapause 9752
Leccinum, Finland 9752
- Pegoscopus***, hosts, *Idarnes* 1572
- Pelargonium***, mites, resistance 5906
- Pelargonium hortorum***
arthropod pests, resistance 8799
Aulacorthum solani, resistance 7899
- Pelargonium peltatum***, food, *Macrolophus caliginosus* 4480
- Pelidnotera nigripennis***
biology 6521
control, *Ommatoiulus moreleti*, evaluation 6521
hosts, *Ommatoiulus* 6521
Portugal 6521
- Pelidnota***, taxonomy 7950
- Pelidnota hirsutiphallica***
forest trees, Panama 7950
taxonomy, new species 7950
- Peliococcus tritubulatus***
biology 11523
Thymus, Italy 11523
- Pellenes***
Helenium hoopesi, habitats, Arizona 3615
prey, *Publilia modesta* 3615
- Pelopidas mathias***
food plants, Japan 6750
pathogens 5647, 6733
rice 5647
India 11573
Philippines 6733
- Peltophorum inerme***, *Rhesala moestalis*, India 11798
- Pempherulus affinis***
control, insecticides 4920
cotton, India 4920
- Pemphigidae**, physiology, enzymes 1060
- Pemphigus***
ecology, survival 4983
Japan 9939
Populus, Utah 4983
Populus maximowiczii, galls 9939
- Pemphigus betae***
ecology
distribution 828
survival 4983
Populus, Utah 828, 4983
- Pemphigus fuscicornis***
biology, reproduction 4871
control, cultural control 7814
food plants, USSR 4871
sugarbeet, USSR 675, 7814
- Pemphigus maximowiczii***
biology, development 9939
parasitoids 9939
- Pemphigus populitransversus***
Brassica, Texas 4826
control, insecticides 4826
sampling 4826
- Pemphigus populivenae***
control, cultural control 8732
natural enemies 8732
sugarbeet, California 8732
- Penaeus indicus***, insecticides, effects 3176
- Penaeus monodon***, insecticides, effects 3178
- Pendimethalin**, effects, *Beauveria bassiana* 5110
- Penfluron** (2,6-difluoro-*N*-[[[4-(trifluoro-methyl)phenyl]amino]carbonyl]benzamide)
effects, *Epilachna vigintioctopunctata* 990
toxicity
Choristoneura occidentalis 9103
Dysdercus koenigii 7233
- Penicillaria jacosatrix***, mangoes, Bangladesh 1594
- Penicillia***, insects, interactions 4132
- Penicillic acid***, toxicity, Noctuidae 4174
- Penicillium***
extracts
effects, *Spodoptera littoralis* 4183
insecticidal properties 4183
insecticides, effects 11194
toxicity, Noctuidae 4174
- Penicillium citrinum***, hosts, *Cossus cadambae* 1799
- Penicillium funiculosum***, *Saperda calcarata*, interactions 5939
- Penicillium minioluteum***, hosts, arthropods 3096
- Penicillium notatum***, insecticides, effects 11195
- Penicillium stoloniferum***, *Lathridius anthracinus*, interactions 4050
- Penicillium verrucosum***, metabolites, effects, Noctuidae 10165
- Penicillium viridicatum***, metabolites, effects, Noctuidae 10165
- Pennisetia hylaeiformis***, small fruits, Switzerland 5701
- Pennisetum americanum*** (see Pearl millet)
- Pennisetum clandestinum***
Acanthacris ruficornis, South Africa 9372
Heteronychus arator, New Zealand 470
- Pennisetum purpureum***
Coniesta ignefusalis, Senegal 9576
Nilaparvata lugens 9589
- Penstemon virgatus***, *Poladryas minuta*, Colorado 9913
- Pentachlorophenol**
control, Isoptera 3447
degradation, *Rhizopus arrhizus* 979
determination 3447
effects, Amphipoda 6199
nontarget effects, bioassays 9085
pollution, waste water 4209
- n*-Pentadecane**, mixtures, pheromones, *Erthesina fullo* 7069
- 2*-Pentadecanone**, pheromones, *Drosophila busckii* 5298
- (Z)*-6-Pentadecene**, mixtures, pheromones, *Tyrophagus neiswanderi* 9779
- (Z)*-7-Pentadecene**, mixtures, pheromones, *Tyrophagus neiswanderi* 9779
- (S)*-2-Pentadecyl acetate**, pheromones, *Drosophila busckii* 5298
- Pentalonia**
Formicidae, interactions 3837
fruit trees, India 3837
- Pentalonia nigronervosa***
bananas 8656, 10740
biology 5761
China 5761
genetics, chromosomes 5347
insecticides, toxicity 8656
morphology 5761
plant pathogens, transmission 5761, 8655, 10740
- Pentamerus**
Acacia galpinii, South Africa 10012
taxonomy, new genus 10012
- Pentamerus acaciae**
Acacia galpinii, South Africa 10012
taxonomy, new species 10012
- Pentanoic acid** (see Valeric acid)
- Pentastirini**
Taiwan 4266
taxonomy 4266
- Pentatomidae**
cotton, Africa 5884
monitoring, traps 9331
parasitoids 5469, 6896
prey
conifers, insect pests 5985
Epilachninae 630
soybeans, Louisiana 6896
USA 9331
- Pentatomoidea**
monitoring, traps 9331
USA 9331
- Penthaleus major***, Gramineae, Japan 9610
- Pentilia agena***
insecticides, effects 9715
oranges, orchards, Brazil 9715
prey, *Selenaspis articulatus* 9715
- Pentodon idiota***
biology, phenology 363
monitoring, traps 363
sugarcane, Iran 363
- Peperomia***, seeds, *Camponotus femoratus*, Peru 10402
- Pepper mild tigre virus**, vectors, *Bemisia tabaci* 7845
- Pepper vein banding virus**, vectors, Aphididae 10852
- Pepper vein mottle potyvirus**, vectors, Aphididae 6853, 9856, 10852
- Peppermint** (see *Mentha piperita*)
- Peptides**, effects, *Schistocerca gregaria* 6509
- Peramine**
analogues, antifeedants, *Listronotus bonariensis* 9108
antifeedants, *Listronotus bonariensis* 9108
determination 7676
repellents, *Listronotus bonariensis* 7676
- Perapion antiquum*** (see *Apion antiquum*)
- Pernobraconoides***, taxonomy, new genus 3921
- Pernobraconoides jojoba***
hosts, *Amphicerus cornutus* 3921
jojoba, habitats, USA 3921
taxonomy, new species 3921
- Perdix perdix***, insecticides, toxicity 2045
- Peregrinus maidis***
biology, phenology 9563
maize 3678
Reunion 3666
Venezuela 9563
pathogens 3678
plant pathogens, transmission 3666, 7657
rearing techniques 3666
sorghum, India 7657
- Perennial ryegrass** (see *Lolium perenne*)
- Perezia dichroplusae***, hosts, *Dichroplus elongatus* 7137
- Perfekthion** (see Dimethoate)
- Perga***, *Eucalyptus*, Australia 11005
- Perga affinis***, *Eucalyptus*, Australia 11005

- Perga affinis affinis*
Eucalyptus, Australian Capital Territory 5026
 physiology, digestive system 5026
- Pergamasus*
 morphology 2125
 pathogens 6068
 physiology, spermatozoa 6068
 taxonomy 2125
- Peribaea orbata*
 biology 6984
 hosts, *Spodoptera litura* 6984
 India 6984
- Peribatodes manuelaria*
 biology 1877
Quercus ilex, Spain 1877
- Pericallia ricini*, insecticides, effects 939
- Periclista andrei*
 biology 818
Quercus ilex, Spain 818
- Periclistus*, hosts, *Diplolepis* 9915
- Peridea anceps*
 biology 3972
 control, insecticides 3972
 natural enemies 3972
Quercus, USSR 3972
- Peridroma chilensis*
 control 8663
 globe artichokes, Chile 8663
- Peridroma saucia*
 biology, migration 9633
 control 8663
 diets 8967
 distribution, Switzerland 142
 food plants, Oregon 9634
 globe artichokes, Chile 8663
 Iowa 9633
 monitoring, traps 2944, 9633
 ornamental plants, Italy 2944
 parasitoids 9634
 plant extracts, effects 333, 4599
 plant oils, effects 8967, 10536
 sex pheromones 2944
- Perilampus*, hosts, dates, insect pests 1545
- Perilampus tristis*
 apples, orchards, USSR 2743
 hosts, Hymenoptera 2743
- Perileucoptera coffeella*
 biology
 behaviour 4952
 mortality 9893
 phenology 765
 coffee
 Brazil 9893
 Cuba 4952
 Guatemala 765
 Puerto Rico 1750, 7885
 natural enemies 9893
 parasitoids 765, 1750
- Perilitus areolaris*
 distribution, Czechoslovakia 5030
 hosts, *Hylobius abietis* 5030
Perilitus rutilus, misidentification 5030
Picea, habitats 5030
- Perilitus rutilus*, *Perilitus areolaris*, misidentification 5030
- Perilla*, arthropod pests, Korea Republic 1720
- Perilla frutescens*, *Pyrausta phoenicealis*, China 9509
- Periplaneta americana*
 Egypt 281
Psammotermes hybostoma, interactions 281
- Periscelididae*, distribution, Bulgaria 6257
- Peristeranthus hillii*, *Metriorhynchus rufipennis*, pollination 1766
- Perizin* (see Coumaphos)
- Perkinsiella saccharicida*
 distribution, maps 6456
 food plants 6456
 plant pathogens, transmission 6456
- Permasect* (see Permethrin)
- Permethrin* ((3-phenoxypheyl)methyl 3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate)
 control
Agrotis ipsilon 4942
Amrasca biguttula 8669
Amrasca devastans 11774
Annona muricata, insect pests 1596

- Permethrin* cont.
 control cont.
Anthonomus rubi 8558
 Aphididae 8558
 apples, arthropod pests 2738
 cauliflowers, Lepidoptera 2806
Contarinia medicaginis 2688
 cotton, insect pests 742
Diatraea 8515
Dinoderus minutus 9514
Faustinus rhombifer 5861
 forest trees, insect pests 810
Helicoverpa armigera 8726, 9865
Hyphantria cunea 485
Idioscopus clypealis 11675
 Lepidoptera 1649
Leptinotarsa decemlineata 7834
Leucoptera malifoliella 3749
Lygus pratensis 3839
Malacosoma neustria 5165
Myzus persicae 10851
Oides scutellata 8574
 onions, insect pests 8750
Phyllocnistis citrella 1575, 7752
Plutella xylostella 4825
Prostephanus truncatus 3055
 raspberries, Coleoptera 506
Scirtothrips dorsalis 5867
Scirtothrips kenyaensis 9902
Sitodiplosis mosellana 9536
Spilosoma obliqua 2729
Spodoptera exigua 2635
Spodoptera frugiperda 5623, 8482
 sugarbeet, Coleoptera 2856
Syllepte derogata 6962
Tetranychus cinnabarinus 11693
Thrips tabaci 7829
 tomatoes, insect pests 1714
Trialeurodes vaporariorum 1599
Zeiraphera canadensis 8853
- degradation 982
 deposition, monitoring 4419
 detection 5203, 6484
 drift, models 8115
 effects
 algae 11187
Chrysodeixis includens 5824
Diaeretiella rapae 8677
 fungi 11203
 insects 110
 peas 1641-1644
 metabolism, *Leptinotarsa decemlineata* 3160
 microbial degradation 2064
 mixtures
 control
Diatraea 8515
Prostephanus truncatus 3055
 effects, Lepidoptera 9054
 stability 931
 toxicity, *Heliothis virescens* 2916
 mutagenicity
Drosophila melanogaster 11165
Salmonella typhimurium 977
 nontarget effects
 aquatic insects 11190
 aquatic organisms 8115
Coptotermes formosanus 10480
Doru luteipes 5623
 fishes 11189
 mice 2032
 predatory arthropods 5820
Trissolcus basalus 6896
Typhlodromus pyri 2738
 persistence, fruits 3780
 residues
 aubergines 6948, 11760
Cicer arietinum 11736
 fishes 7200
 limes 10731
 meat 6484
 sewage sludge 5214
 tomatoes 7834
 resistance
Cacopsylla pyricola 8624
Chrysodeixis includens 10801
Chrysoperla carnea 2509
Heliothis virescens 2914-2916
Leptinotarsa decemlineata 5191
Liriomyza trifolii 4966, 5911, 7003
Lycoriella mali 2792

- Permethrin* cont.
 resistance cont.
Metaseiulus occidentalis 2693
Myzus persicae 10851
Neoseiulus longispinosus 10882
Spodoptera exigua 11977
 stability 931
 synergism 3155, 5191, 7839, 9054
 toxicity
Achaea janata 1721
Aleurocanthus woglumi 4781
Bemisia tabaci 6974
 beneficial insects 3497
Callosobruchus 947-948
Clavigralla gibbosa 9810
Coccinella septempunctata 2476
Dysdercus 9871
Helicoverpa zea 2914, 11768
 Hymenoptera 8362
Leptinotarsa decemlineata 7839
Lipaphis erysimi 3172
 Meloidae 3842
 parasitoids 6529
Plutella xylostella 8085
Pteroma plagiophleps 8890
Rhyzopertha dominica 5091, 5093
Scirpophaga incertulas 6740
Scolytus multistriatus 5051
Spodoptera frugiperda 404
Spodoptera littoralis 3155
 stored products pests 5092
Thysanoplusia orichalcea 736
 trans-(±)- (see Transpermethrin)
cis-Permethrin, toxicity, *Trichoplusia ni* 9063
Peronosclerospora sorghi, extracts, effects, *Tribolium castaneum* 10631
Persea americana (see Avocados)
Persea borbonia, *Papilio* 6661
Persea thunbergii, *Eupromus ruber*, Japan 9934
Persectania ewingii
 food plants, Australia 5583
 oats, Victoria 5608
 parasitoids 5583
 sampling 5608
Persian limes (see *Citrus latifolia*)
Persicaria hydropiper, extracts, effects, *Helicoverpa assulta* 8786
Persimmons (*Diospyros kaki*)
 commodities
 insect pests, control, radiation 7991
 pest control 7991
 fumigants, effects 4083
Hypocala subsatura, China 342
Perthane (see Ethyl-DDD)
Perthida glyphopa
 biology, development 3029
Eucalyptus marginata, Western Australia 3029, 10966
 parasitoids 10966
 Peru
 biological control 5160
Bostryx conspersus 1371
Camponotus femoratus 10402
 Cicindelidae 2315
Erythroxylum coca, insect pests 3638
 Formicidae 8859
Lincus 2699
Lonchophorellus scylla 8653
Nasutitermes ephratae 1347
Neoseiulus chilensis 9646
 oil palms, pollinators 1541
 Phytoseiidae 5763
 soil, invertebrates 1348, 8922
Toxoptera citricidus 6835
 Pest control
 Africa, books 11258
 alternative farming, books 3217
 apples 1559
 German Federal Republic 6809
 Hungary 8591
 USA 1560
 USSR 8599
 apricots 11244
 Argentina, bibliographies 2079
 aubergines, India 7840
Averrhoa carambola, Taiwan 5758
 avocados, books 2085
Azadirachta indica
 books 5234

Pest control cont.

- Azadirachta indica* cont.
 - Burkina Faso, economics 6676
 - reviews 9050
- Bacillus thuringiensis* 11114
- bacterial insecticides, books 10196
- bamboos 1416
- barley
 - German Democratic Republic 7599
 - USSR 398
- biotechnology 1965
- books 6227
- Bulgaria 1974
- cabbages, Thailand 1413
- Cajanus cajan* 1668
- Camellia*, books 2114
- Canada, reports 8183
- cassava 9113
 - bibliographies 2081
- Central America 2065
- cereal grains 4070, 11037
 - conferences 12034
- cereals
 - German Federal Republic 8058
 - USSR 8456
- chemistry, conferences 6235
- China 352
- chrysanthemums 771
- Citrus*
 - Italy 8641
 - South Africa 568
- coconuts 6783, 10173
- coffee, information 4956
- computer software 9010-9011
- conferences 10205
- cotton
 - Chad 3735
 - conferences 1017
 - models 5875
 - Tanzania 3936
 - USSR 2902
- crops 6101
 - Africa 900
 - Belgium 4236
 - books 999
 - conferences 11266
 - Florida 12018
 - Israel 11682
 - reviews 590-591
 - Romania 4571-4573
 - Sweden 3120
 - USA 11115-11116
 - USSR 8992
- Cymbidium*, New Zealand 5913
- developing countries 5154
- development 5155-5156
- ecology 5241
- economics 7447
- entomogenous fungi, reviews 3105, 6831
- entomophilic nematodes, China 11111
- essential oil plants 6222
- expert systems, reviews 5141
- field crops
 - German Federal Republic 8055
 - books 7260
 - Israel 4806
 - Zimbabwe 1600
- flowers, reviews 779
- forest trees 8855
- forests 1777, 1781, 7928
 - German Federal Republic 3995
- fruit trees
 - reviews 489
 - USSR 533, 538, 4727
- fruits
 - Austria 5693, 9035-9036
 - Israel 4708-4709, 4770, 11613
 - reviews 487
 - USSR 484
- fungal insecticides 6107
- gardens, books 6230
- genetic engineering 3089
 - reviews 3138
- genetic transformation, reviews 11356
- German Federal Republic 5182
- grapes 8157
 - Austria 3768
 - Europe, conferences 6243
 - German Federal Republic 5716
 - Hungary 11631

Pest control cont.

- grapes cont.
 - Italy 11627
 - Washington 2709
- grasslands, bibliographies 2080
- greenhouse crops 7446
 - German Democratic Republic 910
 - Norway 6876, 6944
 - USSR 1599
- herbage 1514
- horticultural crops
 - Kenya 6128
 - tropics 10745-10746
- Hungary 8057, 9012
- India, books 12021
- information 5153
 - Africa 5145
 - Brazil 5151
 - Caribbean 5150
 - East Asia 5148
 - Europe 6104
 - Kenya 5146
 - Malaysia 5147
 - North America 5152
 - Pacific Islands 5149
- information systems 6491
- insect growth regulators 6126
- insect viruses, genetic engineering 3128
- Israel, reviews 1375
- juvenile hormone analogues, reviews 4217
- legislation, India 11129
- legumes
 - reports 2117
 - USSR 625-626
- Lupinus* 10783
- maize
 - bibliographies 2083
 - Israel 405
 - Italy 8483
 - USSR 401
- microbial pesticides 1001, 6105, 9022
 - conferences 10216
 - reviews 1966, 8052, 11953
- millets, USSR 419
- models 6102, 7163, 9013, 11951
 - expert systems 6100
- movement, models 10087
- museums, books 3214
- mushrooms, books 7283
- natural resources 3217
- nectarines, commodities 7115
- neem extracts, economics, reviews 1990
- Netherlands 1976
- neurohormones 83, 993, 8243
- Nosema* 7097
- oats, USSR 395
- oil palms 9134
- orchards, Europe 491
- Orchidaceae 7252
- organic farming, products, books 11256
- ornamental plants 3963, 9125
 - Denmark 2942
 - Israel 11784
 - reviews 772
 - USSR 12028
- ornamental woody plants 7001
- pastures, tropics 12013
- pearl millet, India 4656
- pears 2092, 8625
- pest resistance, genetic engineering 6131
- pesticides, Israel 5166
- Phaseolus vulgaris* 9112
- pheromones, reviews 4218
- plant extracts 3167, 4151, 4295
- plantation crops 11277
- pome fruits, Italy 6804
- potatoes 5850
 - USSR 703, 2862
 - books 12025
- pyrethroid insecticides 6125
- radishes, German Federal Republic 3893
- rape
 - France 8058
 - Sweden 2801
- raspberries 2090
- reports 10223
- research 6103
 - India 7249

Pest control cont.

- rice 10212, 11267
 - Asia 4673
 - China 6728
 - conferences 2107
 - India 3696
 - information 4669
 - USSR 427
 - root vegetables, bibliographies 2082
 - Rosaceae 778
 - roses, New Zealand 11785
 - rye, USSR 396
 - semiochemicals 6132
 - small fruits
 - conferences 10186
 - Switzerland 5699-5703, 5705, 5707-5708, 5723
 - Washington 5698
 - soyabeans 10799
 - Brazil 1655-1656
 - expert systems 658
 - spice plants, India 11276
 - stored products 11035
 - books 11261
 - German Federal Republic 4054
 - reviews 1897
 - strawberries 503
 - Switzerland 5704
 - USSR 7715
 - Sudan 6625
 - sugarbeet 10814-10816
 - Europe 11737
 - German Democratic Republic 679
 - Italy 8729
 - UK 2859
 - USSR 678, 3897-3898
 - sugarcane 8182
 - Switzerland 7164
 - tea, Kenya 11274
 - tomatoes, New Zealand 10844
 - Trifolium repens* 2689
 - USA 6103
 - books 7256, 11259
 - USSR 909
 - vegetables 2089, 2091, 3830
 - Israel 4807
 - USSR 6226
 - Vicia faba* 12016
 - Victoria 6491
 - viral insecticides 6106
 - USSR, reviews 10082
 - walnuts, books 2093
 - wheat
 - Brazil 9533
 - Burundi 7590
 - information 4626
 - woody plants, USSR 4992
- Pest management (see also Integrated pest management)**
- field crops, China 8064
- Pest resistance**
- acaricide resistance, interactions 11731
 - assessment 10838
 - bioassays 8760
 - books 10178, 11254
 - cereals, crop production 11120
 - Cicer arietinum*, catalogues 10202
 - coconuts 11272
 - control, *Chilo partellus* 11587
 - cotton
 - conferences 1018
 - genetic engineering 7858
 - crops 7551, 9121
 - UK 8184
 - determination 1622, 1677
 - evaluation 1431
 - field crops, USSR, books 12024
 - fruits 2110
 - genetic engineering 1741, 1979-1981, 3136-3138, 4228
 - lucerne 8176
 - maize 8501
 - pest control 10205
 - genetic engineering 6131
 - plants, genetic engineering 11121
 - potatoes 5844
 - effects, *Edovum puttleri* 8736
 - raspberries, books 9122
 - reviews 1978, 4161
 - rice 6737-6738
 - reviews 6725

Pest resistance cont.

- rye 1442
- Schizaphis graminum*, models 1977
- screening 1442, 2671, 5659, 8501, 9575, 11028, 11717
- tobacco, genetic engineering 5893
- Vigna unguiculata* 7799
- genetic engineering 9798
- wheat, genetic engineering 7596
- Pesticide resistance**, economics, reviews 3156
- Pesticides**
 - adsorption 981
 - analysis 164, 167
 - application 491, 503, 1559, 1601, 1975, 4245, 8558, 9679, 11133-11134
 - containers 11132
 - fruits 7704
 - models 7447
 - remote control 6129
 - assays 6145
 - Belgium, books 4236
 - books 11248, 12020
 - carcinogens, conferences 10211
 - contamination, clothing 6177
 - degradation 936, 982
 - soil 2020
 - determination 2379, 7173
 - ecosystems, effects 1020
 - effects, vectors 6239
 - environmental impact 11230
 - Europe, books 10199
 - formulations 11968
 - carriers 11137
 - characteristics 9043
 - controlled release 10188
 - reviews 1989, 10183
 - France, books 10185
 - information 10185
 - Austria 6146, 6148
 - USSR 2902
 - law, UK, books 7270
 - legislation, German Federal Republic 11127
 - Metarhizium anisopliae*, interactions 6113
 - microbial degradation, reviews 10180
 - mode of action, reviews 10183
 - monitoring, organizations, directories 7280
 - movement 7705
 - models 11232
 - mutagenicity, detection 3182
 - nontarget effects 1994, 2020, 10223
 - Amblyseius andersoni* 5735
 - Apis mellifera* 7287
 - arthropods, models 7271
 - beneficial arthropods 2742, 3135, 4157, 6584
 - books 10174
 - reviews 10089
 - environment 11215
 - evaluation 10681
 - Hungary 5212
 - Malaysia, reviews 8056
 - man 4208, 8107, 8111, 9070, 10119, 10211, 11184
 - models 8147
 - predatory mites 4747
 - regulations 11205
 - reviews 11226
 - soil 7220
 - microorganisms 6809
 - testing 6577
 - performance 2112
 - persistence, soil 11234
 - pest control
 - gardens 6230
 - Israel 5166
 - photosensitivity, conferences 3222
 - protection, clothing 961
 - registration, Hungary 11128
 - residues
 - analysis 10184, 11017
 - Apis mellifera* 11210
 - Australia 4190
 - crops, conferences 9124
 - detectors 11149
 - determination 11210
 - conferences 12035
 - fishes 8129, 10132

Pesticides cont.

- residues cont.
 - foods 11014-11015
 - reports 1023, 7301, 10224-10225
 - groundwater 12008
 - man 10134
 - removal, water 10151
 - rivers 10150
 - soil 8135, 8137
 - stored products, books 10184
 - water 2037, 10129, 11229
- safety, books 2098
- sorption, soil 9101
- stability, determination 9044-9045
- storage 10119
- synergism 11151
- systems, handling 11134
- Tanzania, books 4223
- toxicity
 - arthropods 6145
 - models 9353
- toxicology, information, USSR 9046
- usage
 - German Federal Republic 8070
 - Pakistan 984
 - Spain 6139
 - training 8068
 - UK, reports 6246
 - USA 2120
- Petalonium**
 - Formicidae, phoresy 1171
 - USSR 1171
- Petasites albus*, *Helix lucorum* 5540
- Petrejoides reyes*
 - forest trees, Honduras 2987
 - taxonomy, new species 2987
- Petrobia harti* (see *Tetranychina harti*)
- Petrobia latens*, *Coriandrum sativum*, India 5577
- Petroleum**, control, *Indarbela* 3825
- Petroleum hydrocarbons**, insecticidal properties 1987
- Petroselinum crispum* (see Parsley)
- Petrova metallica*, *Pinus ponderosa*, Nebraska 3003
- Petrova resinella*
 - Finland 5922-5923
 - Pinus sylvestris*, galls 5922-5923
 - pollution, effects 5922-5923
- Petunia*, extracts, insecticidal properties 4228
- Petunia hybrida*, extracts, growth regulators, *Helicoverpa zea* 9040
- Petunia integrifolia*, extracts, growth regulators, *Helicoverpa zea* 9040
- Petunia parodii*, extracts, growth regulators, *Helicoverpa zea* 9040
- Peuceetia viridans*
 - biology, behaviour 8363
 - Florida 8712
 - predators 8363
 - prey, *Anticarsia gemmatilis* 8712
 - South Carolina 8363
- PH 60-51**, toxicity, *Helicoverpa armigera* 2007
- PH 70-23**, toxicity, *Helicoverpa armigera* 2007
- Phacopterionidae**
 - ecology 10240
 - morphology 10240
 - Panama 10240
 - taxonomy 10240
- Phaedon**
 - Cardamine cordifolia*, Colorado 7707
 - control, insecticides 7707
- Phaedon cochleariae**
 - amide insecticides, toxicity 11146, 11239
 - insecticides
 - antifeedants 8687
 - pathogenicity 3112
 - toxicity 11147, 11964-11966
 - radishes 8687
- Phaedon oviformis**
 - Cardamine cordifolia*, Colorado 7707
 - control, insecticides 7707
- Phaenochitonina sagaris satnius**
 - Melastomataceae, Brazil 4004
 - morphology, larvae 4004
- Phaenops acuminata*, taxonomy, to *Oxypteris* 9149

- Phaenops atropurpurea*, taxonomy, to *Oxypteris* 9149
- Phaenops consoputa*, taxonomy, to *Oxypteris* 9149
- Phaenops cyanea*, *Pinus*, USSR 5074
- Phaenops notata*, taxonomy, to *Oxypteris* 9149
- Phaeogenes impiger**
 - Allium*, fields, Poland 1704
 - hosts, *Acrolepiopsis assectella* 1704
- Phaeogenes nigridentis**
 - distribution, Virginia 4970
 - hosts, *Ostrinia nubilalis* 4970
- Phaeogenini**
 - evolution 2154
 - hosts, Lepidoptera 2154
- Phaeolobus saltans*, hosts, *Obera erythrocephala* 8415
- Phagocarpus permundus* (see *P. permundus*)
- Phagocarpus permundus**
 - Crataegus monogyna*, Italy 11516
 - morphology, larvae 11516
- Phalacrocorax olivaceus*, insecticides, residues 9088
- Phalacrotophora fasciata*
 - hosts, *Chilocorus kuwanae* 6015
 - USSR 6015
- Phalangium opilio**
 - potatoes
 - fields
 - Michigan 10828
 - UK 8739
 - prey
 - Aphididae 8739
 - Leptinotarsa decemlineata* 10828
- Phalera bucephala**
 - biology 8832
 - Fagus sylvatica*, Spain 8832
 - morphology 8832
 - Spain 1178
- Phaleria**, distribution, Australia 8198
- Phanerotoma**
 - hosts, *Conopomorpha cramerella* 10737
 - orchards, Taiwan 10737
- Phaneta mormonensis**
 - parasitoids 8425
 - Texas 8425
- Phaonia gallicola**
 - Brazil 1389
- Pteridium aquilinum*, galls 1389
- Pharbitis purpurea**, *Eumenotes obscura*, Malaysia 1767
- Pharnacia acanthopus**
 - biology, development 4298
 - forest trees 4298
- Pharoscyrnus**
 - Libya 1545
 - prey, dates, insect pests 1545
- Pharoscyrnus flexibilis**
 - apples, orchards, India 6810
 - control, *Quadraspidiotus perniciosus* 6810
 - India 11433
 - prey, *Quadraspidiotus perniciosus* 11433
- Pharoscyrnus horni**
 - control, *Melanaspis glomerata* 7584
 - sugarcane, plantations, India 7584
- Phaseolus**
 - commodities, Bruchidae, resistance 868, 1916
 - Leptopharsa madrigali*, Colombia 9790
 - Ootheca bennigseni*, Africa 6457
 - Psallus seriatus* 7863
- Phaseolus aureus** (see *Vigna radiata*)
- Phaseolus lunatus**
 - Delia platura* 6882
 - diets, *Cydia molesta* 11407
 - insect pests
 - damage 11399
 - tropics 2821
 - Spodoptera exigua*, resistance 9847
 - Tetranychus pacificus* 9791, 10441
 - Tetranychus urticae* 628, 4474, 7794, 11756
 - Trichoplusia ni* 2820
- Phaseolus mungo** (see *Vigna mungo*)
- Phaseolus vulgaris**
 - acaricides, residues 11198
 - Aleyrodidae, Norway 8809

- Phaseolus vulgaris** cont.
 Aphididae 10789
Aphis fabae
 German Federal Republic 9783
 Iraq 8695
 Italy 11448
Bemisia tabaci
 Brazil 10784
 Cuba 10790
 bibliographies 5226, 9112, 11240
 Bruchidae, resistance 2822
Cerotoma ruficornis, Cuba 4849
 Chrysomelidae, Venezuela 9788-9789
 commodities
 Acanthoscelides obtectus 11897
 varietal susceptibility 8003
 Bruchidae 8969
 Callosobruchus maculatus 11877
 India 10047
 diets, *Helicoverpa armigera* 9360
 Zabrotes subfasciatus 6054, 7999, 11884
 damage 6053
 varietal susceptibility 11885
Cryptozona belangiri, India 3834
 diets, *Chilo partellus* 6496
Dorylus orientalis, China 9737
Empoasca fabae 9786
 Michigan 9787
 Minnesota 11684
Empoasca kraemeri 635
 Brazil 9784
 resistance 5806
 Venezuela 636-638
Epilachna varivestis, resistance 631
 extracts
 effects, Bruchidae 4087
 toxicity, *Callosobruchus chinensis* 7119
 fields
 beneficial insects, Brazil 9785
 parasitoids, Ethiopia 639
 Trioxys angelicae, Italy 11448
 insect pests
 Brazil 1637-1638, 8697, 9785
 Cuba 634, 4850, 10791
 natural enemies 9785
 tropics 8696
 Virginia 1639
 insecticides
 degradation 629
 effects 4845-4846
 Lepidoptera, Arkansas 3873
Liriomyza trifolii 633, 4931, 4975
Medythia quaterna, Africa 6456
Ootheca bennigseni, Tanzania 11685
Ophiomyia centrosematis 2833
Ophiomyia phaseoli
 economic thresholds 2816
 Ethiopia 639
 India 2816
Ostrinia nubilalis, varietal susceptibility 8698
 pest control 5226, 9112, 11240
 Zimbabwe 1600
Sarasinula plebeia 312
 Central America 640
 Scarabaeidae, Kenya 10788
Spodoptera, Nicaragua 4848
Systema basalis 4376
Tetranychus urticae 9084, 11198, 11714
Thyanta pallidovirens 9792
 Thysanoptera, German Federal Republic 3836
Trialeurodes vaporariorum 4514
 viruses
 vectors
 control, insecticides 11713
 insects 8696
- Phasmatidae**
 grasses, Kansas 8528
Phoetaliotes nebrascensis, interactions 8528
 research projects 5423
- Phasmatodea**
 conservation 6397
 North America 9160
 taxonomy 9160
- Phasmencyrtus indicus*, taxonomy, synonyms, of *Diversinervus cervantesi* 2459
- Phasmida**
 bibliographies 4263
 biology 7255
 British Isles, books 7255
 morphology, spermatozoa 2162
- Phasmomyrmex polyrhachioides*
 Ghana 11903
 pathogens 11903
- Phassus triangularis*
 diets 10381
 rearing techniques 10381
- Phaulacridium vittatum*
 genetics, polymorphism 2406
 lucerne, Australia 6768
 Victoria 2406
- Pheasants**, prey, Rhopalocera 9988
- Pheidole**
 monitoring, traps 8324
 sampling 4612
 soil, Queensland 4612
 Texas 8324
- Pheidole dentata*
 biology, behaviour 2421, 7478
 woodlands, Florida 2421
- Pheidole megacephala*
 distribution, Bermuda 2424
Iridomyrmex humilis, interactions 2424
 prey, Lepidoptera 1508
 sorghum, fields, South Africa 1508
- Pheidole morrisii*
 biology 10192
 prey, *Anticarsia gemmatalis* 4862
 soyabeans, fields, Florida 4862
- Pheidole pallidula*
 biology, behaviour 10421
 cereals, fields, Spain 4613
 ecology, population dynamics 4613
 France 11042
 genetics, karyotypes 5426
 kairomones 10417
 physiology, spermatogenesis 11326
 predators 10417
Reticulitermes, interactions 11042
 Spain 5426
- α -**Phellandrene**, mixtures, pheromones, *Velocitermes velox* 3578
- Phellinus everhartii*, *Hadraule blaisdelli* 10756
- Phenacaspis alnus* (see *Chionaspis alnus*)
- Phenacoccus**
 cassava, Trinidad and Tobago 1701
 Romania 7311
 taxonomy 7311
- Phenacoccus hargreavesi*
 cocoa, Ghana 10875
 sampling 10875
- Phenacoccus herreni*
 biology 712
 cassava
 Colombia 712
 damage 2878
 control 712
- Phenacoccus hirsutus* (see *Maconellicoccus hirsutus*)
- Phenacoccus manihoti*
 cassava 2877, 4892-4893
 Africa 6934, 9842, 10836-10837
 Congo 2100, 5851-5852, 6935
 Nigeria 710, 6936
 resistance 6933
 West Africa 11746
 control, biological control 5852, 6934-6935, 9842, 10836, 11746
 ecology
 distribution 710
 population dynamics 5851, 6935
 natural enemies 2100
 reviews 6937
 parasitoids 2877, 4892-4893, 6936
 predators 4891
 sampling 710
- Phenacoccus spiriferus*, taxonomy, synonyms, of *Planococcus citri* 16
- Phenethyl propionate**, mixtures, attractants, Scarabaeidae 5772
- Phenolic compounds**, effects, insects 5931
- Phenothiazine**, control, *Varroa jacobsoni* 1245
- Phenothrin** ((3-phenoxyphenyl)methyl 2,2-dimethyl-3-(2-methyl-1-propenyl) cyclopropanecarboxylate)
 detection 6484
 metabolism, rodents 8102
 mixtures, stability 931
 residues
 food 1023
 meat 6484
 stability 931
 toxicity, *Lipaphis erysimi* 5179
 (1R)-*cis-trans*-determination 6478
 formulations, aerosols 8075
 toxicity
 Rhyzopertha dominica 5093
 stored products pests 5091-5092
- d-phenothrin** (see Phenothrin, (1R)-*cis-trans*)
- 3-Phenoxybenzyl 3,3,3-trifluoro-2-phenyl-propyl ethers**
 insecticidal properties 6482
 synthesis 6482
- 5-[(4-Phenoxyphenoxy)methyl]-1,3-benzodioxole**
 effects, *Galleria* 7979
 toxicity, *Tribolium castaneum* 7979
- Phenthiocarb**, control, *Idioscopus* 6851
- Phenthoate** (ethyl α -[(dimethoxyphosphinothioyl)thio]benzeneacetate)
 control
 Amrasca biguttula 9756
 Anarsia ephippias 3867
 Chilo partellus 3721
 Hishimonus sellatus 10739
 Rhopalosiphum maidis 3664
 Saperda populnea 10909
 Sitobion avenae 5605
 soyabeans, insect pests 6898
 Spodoptera frugiperda 9562
 Termitidae 8725
 mixtures
 control, *Syllepte derogata* 755
 toxicity, *Helicoverpa armigera* 2854
 nontarget effects, *Pila globosa* 7209, 8401
 resistance, *Plutella xylostella* 4831, 10106
 toxicity
 Epilachna vigintioctopunctata 5846
 fishes 8123
 Helicoverpa armigera 2854
 Mythimna separata 5668
 with metolcarb, toxicity, fishes 6174
- 2-Phenylethanol**, attractants, *Delia antiqua* 716
- 3-Phenyl-1-propanol**, attractants, *Diabrotica* 11543
- Pheretima posthuma*, insecticides, effects 7203, 10126
- Pheromones** (see also individual types of pheromones)
 arthropods, movement, models 5372
 books 2074, 8161
 classification 9206
 control
 arthropod pests 1375
 forest pests 842
 insect pests 7168
 Keiferia lycopersicella 1712
 Noctuidae 11306
 olives, insect pests 8650
 Scolytidae 1796
 enantiomers, analysis 11307
 evaporation 994
 formulations 8307
 controlled release 10188
 insect pests 4238
 models 912
 Noctuidae, reviews 11306
 pest control 4218, 10205
 stored products 3048
Pteleobius vittatus 10005
 release, determination 8307
 synthesis 1090, 4052, 9205
 reviews 1089
 USSR, books 1007
- Pheropsophus aequinoctialis*, control, *Scaptiscus*, evaluation 1519

- Pheropsophus jessoensis*
diets 9426
rearing techniques 9426
- Phidippus audax*
cotton, fields, Mississippi 1735
prey, cotton, insect pests 1735
- Philadelphus coronarius*, *Popillia japonica* 11820
- Philaenus spumarius*
biology, environmental factors 8556
Erigeron glaucus, California 3632
genetics 7382
Lotus corniculatus, Wisconsin 1528
physiology, chemical composition 3335
Platytilia williamsii, interactions 3632
strawberries, USA 8556
UK 7382
- Philanthus triangulum*, venoms, biochemistry 10433
- Philinae**
morphology 5273
Taiwan 4395
- Philippines**
Agrilus sexsignatus 1813
Aphididae 10842
bananas, pest control 9729
Cicadellidae 5653
Cnaphalocrocis medinalis 4667
Coccotrypes fallax 9927
coconuts, reports 8180
crops, research, conferences 11266
Diaphorina citri 9702
Dysdercus poecilus 3381
entomology, biosystematics 5409
Halictophagus 3732
Heteropsylla cubana, pathogens 820
Idioscopus 2780
integrated pest management 8059
Leucopholis irrorata 11791
Lycosa pseudoannulata, prey 7641
man, insecticides, effects 9071
Marasmia patnalis 10616
Nephotettix virescens 7634
Nilaparvata lugens 7632, 8513, 9580
predators 445
Ostrinia furnacalis 8495
Pelidas mathias, pathogens 6733
Pomacea 454
Pomacea canaliculata 10624
rice
arthropods 5664
fields
insecticide residues 7207
predatory arthropods 3701
Homoptera 10623
pest control 6727
predatory insects 5666
reports 8185
Scirpophaga incertulas 446, 5665
Spodoptera litura 5894
stored products, mites 7080
- Phillyrea angustifolia*, *Aleurolobus olivinus*, Europe 9912
- Phillyrea latifolia*
Aleurolobus olivinus, Europe 9912
insect pests, Italy 2981
- Philodendron*, seeds, *Camponotus femoratus*, Peru 10402
- Philodendron selloum*, *Colopterus posticus*, Florida 4794
- Philonthini*, distribution, USSR 3421
- Philonthus*, distribution, USSR 3421
- Philonthus cognatus*, habitats, German Federal Republic 2597
- Philonthus fuscipennis* (see *P. cognatus*)
- Philosamia*, India 10494
- Philosamia cynthia* (see *Samia cynthia*)
- Philosamia cynthia ricini* (see *Samia cynthia ricini*)
- Philosamia ricini* (see *Samia cynthia ricini*)
- Philotypesis pilosa*
biology 2754
hosts, *Ceratosolen marchali* 2754
Pakistan 2754
- Phlaeoba panteli*
ecology, population dynamics 3469
Pakistan 3469
parasitoids 3469
- Phloenomus lapponicus*
biology 4979
- Phloenomus lapponicus* cont.
Pinus sylvestris, forests, Poland 4979
Tomicus piniperda, interactions 4979
- Phloeomyzus passerinii*
control 5966
Populus, Italy 5966
- Phloeonomus pusillus*
biology 4979
Pinus sylvestris, forests, Poland 4979
Tomicus piniperda, interactions 4979
- Phloeopora angustiformis*
biology 4979
Pinus sylvestris, forests, Poland 4979
Tomicus piniperda, interactions 4979
- Phloeopora testacea*
biology 4979
Pinus sylvestris, forests, Poland 4979
Tomicus piniperda, interactions 4979
- Phloeosinus aubei*
control 1871
Thuja, France 1871
- Phloeosinus thujae*
control 1871
Thuja, France 1871
- Phloeotribus scarabaeoides*
biology, development 10735
olives, Morocco 10735
- Phlogophora meticulosa*
monitoring, traps 9888
tobacco, Italy 9888
- Phlox drummondii*, *Helicoverpa armigera*, damage 6997
- Phlyctinus callosus*
apples, South Africa 8615
biology 8615
development 2724
oviposition 495
control, physical control 4720
fruit trees, South Africa 495
fruits, South Africa 2724
grapes, South Africa 4720
rearing techniques 2397
- Phobocampe*, taxonomy 243
- Phobocampe uncinata*
France 4016
hosts
Lepidoptera 2982
Lymantria dispar 4016
Quercus, forests, Romania 2982
- Phoca vitulina*, organochlorine insecticides, residues 7206
- Phocus hispida*, insecticides, residues 11224
- Phodoryctis caerulea*
biology, phenology 3869
Lablab purpureus, India 3869
- Phoebis sennae amphitrite*
biology, polymorphism 2578
Senna, Chile 2578
- Phoenix canariensis*, *Rhynchophorus cruentatus* 9911
- Phoenix dactylifera* (see Dates)
- Phoetaliotes nebrascensis*
Bouteloua gracilis, Arizona 3730
control, insecticides 9627
grasses, Kansas 8528
grasslands, South Dakota 9627
insects, interactions 8528
- Pholetesor bicolor*
apples, orchards, Connecticut 10705
control, Gracillariidae 10705
- Pholetesor ornigis*
hosts, *Phyllonorycter blancardella* 4502
rearing techniques 4502
- Phoma*, Diptera, interactions 10915
- Phoracantha semipunctata*
control, trapping 8833
forest trees, Morocco 8833
- Phoradendron serotinum*, *Pseudothysanoes phoradendri*, Florida 9962
- Phorate* (O,O-diethyl S-[(ethylthio)methyl] phosphorodithioate)
contamination, clothing 8132
control
Agrotis ipsilon 9828
Aloephagus myersi 8800
Amrasca devastans 11774
Atherigona 416
Atherigona soccata 8519
aubergines, insect pests 11759
Bagrada hilaris 5795
- Phorate** cont.
control cont.
Bothynoderes punctiventris 6912
Brachycorynella asparagi 1608
Cicadellidae 2887
cotton, insect pests 4932-4933
Delia antiqua 6939
Drosicha dalbergiae 2718
Epitrix hirtipennis 9890
fungi 11202
insect pests 1638
Lipaphis erysimi 11699
Listronotus bonariensis 1518
Macrotermes natalensis 4010, 5041
Myzus persicae 1691
Noctuidae 5813
Odoiporus longicollis 10741
Ophiomyia phaseoli 2816, 3875
Phaseolus vulgaris, insect pests 1637
Phyllocnistis citrella 7756
potatoes, insect pests 1689
Scarabaeidae 11743
Scirpophaga excerptalis 9529
sugarcane, insect pests 6696
Tetranychus urticae 6995
Thrips tabaci 7829
Vigna radiata, insect pests 2831
- effects
fowls 8112
maize 8483
pastures 1441
Phaseolus vulgaris 4845-4846
potatoes 1681
rice 6720, 7617
Vigna radiata 4852
- mixtures
control
Agrotis ipsilon 9828
Lipaphis erysimi 618
Myzus persicae 8743
weeds 10854
effects, potatoes 1681
- nontarget effects
soil, microorganisms 4932
soil flora 4211
- residues
potatoes 11742
soil 8142, 11742, 12007
sorghum 8519
- resistance, *Sogatella furcifera* 7652
- toxicity
Helix vittata 6614
Heterorhabditis bacteriophora 8981
Phthorimaea operculella 1680
Somaticus 5627
uptake, cyanobacteria 2047
- Phorbia brassicae* (see *Delia radicum*)
- Phorbia securis*
control, cultural control 4614
wheat, Romania 4614
- Phoridae**
biology, behaviour 4447
cocoa, plantations, Costa Rica 3946
ecology 9613
fire, effects 7670
fungi 4817
grasslands
German Democratic Republic 9613
Utah 7670
- hosts
Cerapteryx graminis 1520
Formicidae 4447
Isoptera, interactions 10485
monitoring, traps 3946, 7670
Netherlands 1520
plant oils, attractants 3946
taxonomy 7263
- Phormia terraenovae*, predators 1236
- Phorodon humuli*
biology, reproduction 2579
control
insecticides 350
integrated control 3640
food plants, German Federal Republic 6673
genetics, genes, enzymes 6673
hops
British Isles 2579
German Federal Republic 351, 1410

Phorodon humuli *cont.*

hops *cont.*
Romania 3640
USSR 350
insecticides, resistance 350-351, 1410, 2579
morphology 2579
physiology, enzymes 1410, 6673
plant pathogens, transmission 10830
potatoes, Switzerland 10830
Phosalone (S-[(6-chloro-2-oxo-3(2*H*)-benzoxazolyl)methyl] *O,O*-diethyl phosphorodithioate)
control
Amrasca biguttula 8669
Amrasca devastans 11774
Amsacta albistriga 2846
Atherigona approximata 5632
Cicadellidae 2887
Curculio nucum 3773
Cydia funebrana 561
Cydia pomonella 545, 2730
Helicoverpa armigera 7669, 9865
Hieroglyphus banian 3713
Lipaphis erysimi 2807, 11701
Myzus persicae 8787
Myzus varians 562
Nilaparvata lugens 422
Oligonychus indicus 2664
Oulema 381
Quadraspidiotus perniciosus 8580
Rhopalosiphum maidis 3664
Tetranychidae 5738
Tetranychus macfarlanei 2794
Thysanoptera 3784
drift, effects, determination 9051
effects
algae 11187
Macrophomina phaseolina 2036
parasitoids 2846
tomatoes 1715
mixtures
control
Atherigona approximata 5632
onions, insect pests 8750
nontarget effects 6700
beneficial arthropods 5738
Trioxys pallidus 11634
residues
Cucurbitaceae 11705
lucerne 6762
tea 770
synergism 2036
toxicity
Aleurocanthus woglumi 4781
Anomis sabulifera 7190
Aphelinus mali 8372
Earias vittella 5194
fishes 8123
Leptocoris acuta 11178
Meloidae 3842
Pieris brassicae 9051
Platynota idaeusalis 6813
Trichogramma brasiliense 11451
Phosfolan (diethyl 1,3-dithiolan-2-ylidenephosphoramidate)
resistance, *Spodoptera littoralis* 3935
Phosmet (S-[(1,3-dihydro-1,3-dioxo-2*H*-isindol-2-yl)methyl] *O,O*-dimethyl phosphorodithioate)
control
Adoxophyes orana 10712
apples, insect pests 4746
Diploschema rotundicollae 4776
kiwifruits, insect pests 4769
sugarcane, insect pests 4611
effects, *Amblyseius victoriensis* 8632
nontarget effects, *Amblyseius nicholsi* 5905
residues, kiwifruits 4769
resistance, *Amblyseius nicholsi* 5905
toxicity
Empoasca fabae 4697
Platynota idaeusalis 6813
Phosphamide (see Dimethoate)
Phosphamidon (2-chloro-3-(diethylamino)-1-methyl-3-oxo-1-propenyl dimethyl phosphate)
control
Aleurocanthus woglumi 8648
Amrasca devastans 11771, 11774

Phosphamidon *cont.*

control cont.
Aonidiella aurantii 781
apples, arthropod pests 2742
Aspidiotus destructor 10666
Atherigona 414
Bagrada hilaris 5795
Brevicoryne brassicae 4827
Chaetocnema 7910
Helicoverpa armigera 9865
Idioscopus 6851
Lipaphis erysimi 6874, 11699
mangoes, insect pests 5769
Melanagromyza obtusa 5830
Nilaparvata lugens 422
okras, insect pests 11691
Orseolia oryzae 10610
Phyllocnistis citrella 5753
Pyralidae 2838
Pyrilla perpusilla 11553
rape, insect pests 6865
Rhopalosiphum maidis 3664
Rhynchaenus mangiferae 584
Sitobion avenae 5605
Tetranychus macfarlanei 2794
Uroleucon carthami 2898
effects
Crustacea 3178
mice 9074
rats 8100
rice 6721
nontarget effects
Platyaster oryzae 10610
rodents 8101
residues
Cuminum cyminum 7570
lucerne 11612
mangoes 5769
rice 4668
sorghum 3718
toxicity
Aleurocanthus woglumi 4781
Aphelinus mali 8372
Aphis craccivora 672
Coccinella septempunctata 2476
Cucurbitaceae 8688
Earias vittella 5194
fishes 8123
Leptocoris acuta 11178
Lipaphis erysimi 3172
Nephotettix virescens 11567
Scylla serrata 8096
Phosphine
control
Anastrepha suspensa 5101
Diploschema rotundicollae 4776
Indarbela 3825
stored products pests 1004, 4073, 11037
wheat, commodities, insect pests 11038
effects
Ephestia cautella 7980
man 974
onions 1707
mixtures
fumigants, *Trogoderma granarium* 4055
toxicity, *Tribolium castaneum* 7181, 8948
residues
coffee, commodities 3050
determination 3443
stored products 3443
resistance
groundnuts, commodities, insect pests 11895
Rhyzopertha dominica 10118
Tribolium castaneum 11172
toxicity
Ceratitidis capitata 4802
grapefruits, commodities 5101
Pyralidae 6169
Tribolium castaneum 7977, 8948
Phosphoramidodithioate insecticides, insects 8076
Phosphorus, effects, *Panonychus ulmi* 6991
Phosphorus fertilizers
effects
Ips calligraphus 10044
Nilaparvata lugens 11570

Phosphorus fertilizers *cont.*

effects *cont.*
Schizaphis graminum 8521
Spodoptera frugiperda 8480, 8502
Phoxim (4-ethoxy-7-phenyl-3,5-dioxa-6-aza-4-phosphaoct-6-ene-8-nitrile 4-sulfide)
control
Adosomus 3627
Agromyza cinerascens 2603
Agrypnus variabilis 8658
Bradysia odoriphaga 1706
Bruchus pisorum 2824
Dinoderus minutus 9514
Hishimonus sellatus 11657
Idioscopus clypealis 11677
Malacosoma neustria 5165
potatoes, arthropod pests 1683
Quercus, Lepidoptera 1768
wheat, insect pests 382
mixtures, toxicity, *Heterorhabditis bacteriophora* 8981
nontarget effects
Carabidae 696
Tetrastichus 11677
residues, onions 3911
toxicity
Macrocentrus linearis 7511
stored products pests 846
wheat, commodities 11026
Phradis morionellus
control, *Meligethes aeneus* 5786
Finland 5786
Phragmatobia fuliginosa
alkaloids, effects 108
biology, phenology 9888
monitoring, traps 9888
New York 108
parasitoids 9888
pheromones 108, 10279
tobacco, Italy 9888
Phragmites australis
Archanaera geminipuncta, German Federal Republic 9520
Chironomidae, Japan 1418
Coccinella, USSR 5455
Giraudiella inclusa, galls 10541
habitats, *Platycheirus fulviventris*, UK 339
Hyalopterus pruni, UK 339
insect pests 8441
galls 4682
German Federal Republic 10540
Phragmites communis (see *P. australis*)
Phragmites karka, *Schyzops intermedius*, Pakistan 2588
Phratora vitellinae
control 5966
insecticides 5917
Populus, Italy 5966
Populus canadensis, Netherlands 5917
Phrodita fasciata
Gramineae, Brazil 5601
natural enemies 5601
Phryganidia californica
biology 8886
Castanopsis chrysophylla, Oregon 3998
food plants 3997
parasitoids 3998
Quercus, California 1783
Quercus agrifolia, California 8886
Phryma leptostachya, extracts, toxicity, insects 10538
Phryxe vulgaris
biology 4495
hosts, *Pieris rapae* 4495
rearing techniques 4495
Phthalic acid, oviposition deterrents, *Delia radicum* 8675
Phthiracaridae
biology 7013
forest litter, France 7013
Phthiria punctipennis
biology, behaviour 5566
food plants, Florida 5566
Phthorimaea operculella
biology 6916, 9826
behaviour 2870
environmental factors 2863, 9832
phenology 697-698, 2869, 5860
reviews 1679

***Phthorimaea operculella* cont.**

- California 7349
- control 11741
- cultural control 1688, 1746, 11744
- insecticides 850, 8744
- plant extracts 1898
- distribution, Africa 8741
- ecology, population dynamics 693, 2721, 8936
- forecasting 693
- fumigants, toxicity 4179
- genetics, mutants 6376
- growth regulators, effects 1685
- insecticides
 - pathogenicity 8936
 - toxicity 1680
- Iraq 698
- Japan 2870, 7349
- monitoring, traps 693, 1688, 2869, 8741
- natural enemies 2453
- parasitoids 2868, 10826
- pheromones 2870, 7349
- potatoes 1680, 8741, 9826
- commodities 850, 1898, 7971, 8936, 11025
- control, cultural control 10824
- Cyprus 10824
- India 693, 1688, 2869, 8744
- Indonesia 3907, 9832, 11741
- Iraq 697
- Nepal 3904
- South Africa 2868
- Tunisia 11744
- USSR 1679, 2721, 2863, 6916
- Victoria 10826
- radiation
 - effects 7971
 - sterilization 11025
- sterilants, effects 1684
- tobacco, Cuba 1746
- tomatoes, Venezuela 5860
- USSR 2453

Phycitodes

- control, *Senecio madagascariensis*, evaluation 9490
- Senecio madagascariensis*, Madagascar 9490

Phygadeuontinae

- Europe 8210
- taxonomy 8210

Phylacteophaga

- Eucalyptus*, Australia 5959
- parasitoids 5959

Phylacteophaga froggatti

- control, biological control 5959
- Eucalyptus*, New Zealand 5959

***Phyllactinia corylea*, biological control**

- 2732

***Phyllanthus emblica*, *Drosicha mangiferae*,**

- India 5768

***Phyllaphis fagi*, *Fagus japonica*, Japan**

- 7907

Phyllobaenus binotatus

- biology 1866
- prey, *Rhyacionia zozana* 1866
- USA 1866

***Phyllobius artemisiae*, grasses, Hungary**

- 8527

***Phyllobius calcaratus*, nurseries, Belgium**

- 1876

***Phyllobius maculicornis*, biology, environ-**

- mental factors 8272

Phyllocephalinae

- morphology, genitalia 2588
- taxonomy 2588

Phyllocnistis citrella

- biology, phenology 2757
- Citrus* 6455
- India 1575, 2757, 3809, 7752
- Japan 1581
- Yemen Arab Republic 1576

control, insecticides 1575, 5753, 7752,

- 7756

distribution, maps 6455

- limes, India 7756

oranges, Pakistan 5753

- parasitoids 1581

plant pathogens, transmission 1576***Phyllocnistis wampella***

- attractants 6825

***Phyllocnistis wampella* cont.**

- Clausena lansium*, China 6825
- monitoring, traps 6825

Phyllocolpa

- ecology, mortality 8919
- parasitoids 4041
- Salix*, Europe 4041
- Salix lasiolepis*, Arizona 4982, 8919

Phyllocoptes*, fruits, damage 2694**Phyllocoptes adinae***

- Adina racemosa*, China 5947
- taxonomy, new species 5947

Phyllocoptes fructiphilus

- plant pathogens, transmission 10506
- roses, USA 10506

***Phyllocoptes gracilis*, small fruits, Switzer-**

- land 5700

Phyllocoptes mariaui

- oil palms, Ivory Coast 6784
- taxonomy, new species 6784

Phyllocoptes viticolus

- control, acaricides 2690
- grapes, German Democratic Republic 2690

Phyllocoptes vitis

- control, acaricides 2690
- grapes, German Democratic Republic 2690

Phyllocoptruta oleivora

- Citrus*, Florida 2755
- control
 - acaricides 6839
 - insecticides 1586
 - pesticides 9720

oranges

- Brazil 1586
- Florida 6839, 9720

predators 2462***Phyllocoptruta paracitri***

- food plants, China 5948
- taxonomy, new species 5948

Phyllocta vitellinae* (see *Phratora

- vitellinae*)

***Phyllonorycter* 3776**

- biology 3776
- distribution, Hungary 8592
- ecology 11832
- Europe 11832
- fruits, Italy 3776
- New England 1330
- parasitoids 1330, 10972
- Quercus*, Japan 10972
- taxonomy 3776

***Phyllonorycter blancardella* 3776**

- apples
 - Connecticut 10705
 - Italy 3776
 - Nova Scotia 2738
 - Ontario 8603, 10699
 - USA 10702
- biology, phenology 10702
- control
 - biological control 10705
 - insecticides 2738, 10702

distribution, Hungary 8592

- insecticides, resistance 8603, 10699
- parasitoids 4502, 4504, 9408, 10705
- rearing techniques 4502

Phyllonorycter blancardella* × *P. ger-

- asimowi*, distribution, Hungary 8592

***Phyllonorycter cerasicolella* 3776**

- biology 3776

fruits, Italy 3776***Phyllonorycter corylifoliella* 3776**

- quinces, Italy 3776

Phyllonorycter crataegella

- apples, Connecticut 10705
- control, biological control 10705
- parasitoids 10705

Phyllonorycter cydoniella

- apples 541

Switzerland 2736**parasitoids 541, 2736*****Phyllonorycter elmaella***

- apples, Washington 9687
- parasitoids 9687

Phyllonorycter gerasimowi

- biology, behaviour 8312
- distribution, Hungary 8592
- Hungary 8312
- monitoring, traps 8312

Phyllonorycter gerasimowi* × *Phyllo-

- norycter*, distribution, Hungary 8592

Phyllonorycter leucocorona

- natural enemies 5014

Quercus*, Japan 5014**Phyllonorycter mespilella*, distribution,**

- Hungary 8592

***Phyllonorycter pomonella* 3776**

- biology 6823
- control 6823
- food plants, Italy 6823
- fruits, Italy 3776
- parasitoids 6823

Phyllonorycter populifoliella

- biology 3992, 4991
- natural enemies 4991

Populus

- China 3992
- USSR 4991, 6014

Phyllonorycter quercus

- ecology, mortality 3990
- Quercus calliprinos*, Israel 3990

Phyllonorycter ringoniella

- control 7724
- parasitoids 4504

Phyllonorycter similis

- natural enemies 5014
- Quercus*, Japan 5014

Phyllopertha horticola

- Aphis fabae*, interactions 10521
- Capsella bursa-pastoris* 10521

Phyllophaga

- control 9626
- lawns and turf, Colorado 9626
- sorghum, Honduras 8516

Phyllophaga anxia

- control, microbial pesticides 1515
- pastures, North Carolina 1515

Phyllophaga comes

- control, microbial pesticides 1515
- pastures, North Carolina 1515

Phyllophaga fusca

- control, microbial pesticides 1515
- pastures, North Carolina 1515

Phyllophaga smithi

- distribution, maps 6460
- sugarcane 6460

Phyllostachys bambusoides*, *Dinoderus

- minutus* 9514

Phyllostachys viridis

- Dimorphopterus spinolae*, China 8440
- Macropes maii*, China 8440

Phyllosticta*, hosts, *Paradiplosis tumifex

- 5972

Phyllotreta

- control, insecticides 2803, 6865
- morphology, larvae 11293
- rape
 - Poland 2803
 - USSR 6865

***Phyllotreta cruciferae*, *Brassica oleracea*,**

- Connecticut 9759

***Phyllotreta flexuosa*, *Brassica*, Singapore**

- 7775

Phyllotreta nemorum

- biology 602
- Cruciferae, Denmark 602
- food plants 2784
- plant extracts, effects 2784

Phyllotreta sinuata* (see *P. flexuosa*)**Phyllotreta vittula***

- barley 6707
- plant pathogens, transmission 6707

Phylloxera vitifoliae* (see *Viteus vitifoliae*)**Phylloxeridae*, physiology, enzymes 1060*****Phymastichus*, taxonomy, new genera 6986*****Phymastichus coffea***

- Africa 6986
- hosts, *Hypothenemus hampei* 6986
- taxonomy, new species 6986

Phymata pennsylvanica

- cotton, fields, Mississippi 1734
- prey, *Lygus lineolaris* 1734

Physalis

- Heliothis subflexa*, Florida 8554
- Thysanoptera, food preferences 1709

Physalis angulata

- extracts, effects, Noctuidae 10872
- habitats, *Glabromicroplitis croceipes*

- 7871

Physical control

Bissetia steniella 1423
Lygus 1547
Scarabaeidae 9626
stored products pests 1897
barriers
 Annona muricata, insect pests 1596
 Bemisia tabaci 1712
 Bradybaena similaris 10684
 control, grapes, insect pests 4720
 Diptera 1598
 Eudocima 1585
 Galleria mellonella 8331
 Homoptera 11708
 insect pests 3120
 Litchi, insect pests 5757
 Plutella xylostella 11059
 stored products pests 11021
 vegetables, insect pests 10769
cutting, *Bissetia steniella* 5588
Formex, control, grapes, insect pests 4720
netting
 control, *Delia radicum* 3893
 Delia radicum 3892, 8686
 insect pests 8674
 mushrooms, Diptera 9753
 vegetables, insect pests 3894
Plantec, control, grapes, insect pests 4720
vinyl, Tetranychidae 9748
webs, *Bothynoderes punctiventris* 8730
Physocephala
 hosts, Apidae 9395
 Switzerland 9395
Physocephala vittata
 biological control agents, evaluation 8539
 hosts, *Megachile rotundata* 8539
 lucerne, fields, Yugoslavia 8539
 parasitoids 8539
Physokermes jezoensis
 biology 5936
 control, insecticides 5936
 Picea asperata, China 5936
 predators 5936
Phytalmia mouldsi, *Dysoxylum gaudichaudianum*, Queensland 1875
Phytobia cambii
 control, insecticides 5917
 Populus canadensis, Netherlands 5917
Phytocoptella (see *Phytoptus*)
Phytodecta formicata (see *Gonioctena formicata*)
Phytodecta pallida (see *Gonioctena pallida*)
Phytodietus
 hosts, *Homona coffearia* 9904
 tea, plantations, India 9904
Phytometra gamma (see *Autographa gamma*)
Phytomyza atricornis (see *Chromatomyia horticola*)
Phytomyza horticola (see *Chromatomyia horticola*)
Phytomyza ilicicola
 biology 1769
 Ilex opaca 1769
Phytomyza ilicis, parasitoids 212
Phytomyza loniceræ
 Lonicera gracilipes, Japan 5569
 parasitoids 5569
Phytomyza phillyreæ, *Phillyrea latifolia*, Italy 2981
Phytomyza ranunculi
 Fagus sylvatica, UK 9989
 predators 9989
Phytonemus pallidus
 control, acaricides 504, 11781
 Saintpaulia, Hungary 11781
 small fruits, Switzerland 5700
 strawberries, California 504
Phytonomus transsylvanicus (see *Hypera transsylvanica*)
Phytonomus variabilis (see *Hypera postica*)
Phytophthora, vectors, *Cryptozona semirugata* 10496
Phytophthora palmivora, vectors, *Cryptozona semirugata* 10496
Phytoptus, fruits, damage 2694

Phytoptus emarginatae (see *Eriophyes emarginatae*)
Phytoseiidae
 apples
 habitats, Ontario 4753
 orchards
 Brazil 2733
 Italy 6811
 Massachusetts 10704
 Netherlands 10709
 Ontario 8586
 Switzerland 3789
 attractants 11745
 biology 575, 1304, 11625
 cassava, Africa 2876
 control
 Panonychus ulmi 2733
 Tetranychidae, evaluation 11745
 cotton, fields, Paraguay 7880
 distribution, Peru 5763
 ecology
 population dynamics 8586
 models 4753
 grapefruits, orchards, Cuba 575
 groundnuts, fields, Egypt 662
 Italy 2554
 morphology 2125, 7323
 oranges, orchards, Brazil 6837
 pesticides, effects 6837
 pheromones 71
 prey
 Acari 8586
 arthropod pests 662
 mites 575, 4753
 Panonychus ulmi 6811
 Polyphagotarsonemus latus 1713
 Tetranychidae 3789
 taxonomy 2125, 11525
 vineyards, Hungary 8569, 11625
 woody plants, habitats 10469
Phytoseiulus, pesticides, effects 3135
Phytoseiulus macropilis
 genetics, hybridization 9646
 Ricinus communis, habitats, California 9646
 trees, habitats, Cook Islands 9646
Phytoseiulus persimilis
 acaricides, resistance 11217
 attractants 7794
 biology 4474, 8345
 body weight, models 8345
 control
 greenhouse crops, arthropod pests 5862, 11113
 Tetranychidae 4957
 Tetranychus urticae 621, 2786, 3835, 3865, 3964, 5799, 7785, 8630, 11786
 cucumbers, greenhouses, Italy 7785
 ecology, population dynamics 9293, 10441
 greenhouses 5862
 Austria 2786
 German Democratic Republic 621, 3835, 3865, 11113
 German Federal Republic 3964
 Switzerland 5799
 insecticides, resistance 11439
 ornamental plants, habitats, German Federal Republic 11786
 pesticides
 effects 8630
 toxicity 8125
 prey
 Tetranychus cinnabarinus 1742
 Tetranychus pacificus 8345, 10441
 Tetranychus urticae 5502, 6120, 7794, 11439
 rearing techniques 5502
 release techniques 9432
 stone fruits, orchards, Queensland 8630
 Tetranychus urticae, interactions, models 4474
Phytoseius
 coconuts, plantations, India 11619
 prey, *Raoiella indica* 11619
Phytoseius blakistoni
 Korea Republic 8352
 taxonomy 8352
Phytoseius kisumuensis, taxonomy, new species 1833

Phytoseius macropilis
 apples, orchards, Ontario 8586
 ecology, population dynamics 8586
 prey, Acari 8586
Phytoseius neohongkongensis
 food plants, Kenya 1833
 taxonomy, new species 1833
Phytoseius neomontanus
 Malvaceae, Kenya 1833
 taxonomy, new species 1833
Phytoseius nipponicus
 Korea Republic 8352
 taxonomy 8352
Phytosterols, effects, *Helicoverpa armigera* 79
Pica pica, nests, *Procalvolia aviophilus*, USSR 5455
Picea
 Adelgidae 9987
 arthropods, Austria 8910
 Cephalcia, Denmark 1882
 Cephalcia fallenii, Poland 9994
 Cephalcia isschikii 1812
 Chermes tsugae, Connecticut 5945
 Choristoneura fumiferana, USA 8845
 Dioryctria abietella, Europe 5996
 Elatobium abietinum 6455
 extracts, effects, Scolytidae 4035
 forests, Carabidae, USSR 4537
 habitats, *Perilitus areolaris*, Czechoslovakia 5030
 Hylobius abietis, Czechoslovakia 5030
 insect pests
 outbreaks 8880
 Poland 9997
 insects, Austria 10989
 Ips typographus 1849
 outbreaks 11853
 Scandinavia 11854
 Sweden 11852
 Miridae, USA 11808
 Pissodes strobi, North America 6000
 Pityogenes chalcographus, Austria 5979
 Pristiphora abietina, German Federal Republic 8911
 wood
 Ips typographus 2229
 Rhyncolus incertus, Bhutan 8847
Picea abies
 Acmaeops angusticollis, Poland 10890
 Cephalcia abietis, German Democratic Republic 7904
 Cinara, Finland 5054
 Cydia strobilella, damage 5986
 Epinotia tedella, German Federal Republic 3024
 extracts, effects, *Pityogenes chalcographus* 8835
 forests
 Anogmus, Poland 9997
 Quedius conicus, France 1837
 Gilpinia hercyniae 5976
 varietal susceptibility 5058
 Graellsia isabellae 1827
 Haematoloma dorsatum, damage 5968
 Hylobius abietis 8825
 France 8820
 insect pests
 damage 10926
 France 5992
 parasitoids 5986
 insects
 Poland 5986
 Romania 6002
 Ips schmutzenhoferi 3017
 Ips typographus 787, 5011
 Belgium 2991
 Denmark 801, 3025
 Europe 11850
 interactions, models 11838
 Norway 8918
 resistance 11845
 Sweden 791, 4249
 Kaltenbachiola strobi, USSR 5999
 Lymantria monacha, Czechoslovakia 2951
 Malacodea regelaria, Sweden 5057
 Pityogenes chalcographus 5072, 8835
 Siricidae, UK 9983
 Tenthredinoidea, Sweden 4997

- Picea abies* cont.
wood
insect pests, damage 8955-8956
Xylosandrus germanus, damage 1909
- Picea asperata*, *Physokermes jezoensis*, China 5936
- Picea balsamea*, *Choristoneura fumiferana*, Quebec 8840
- Picea engelmannii*
Choristoneura occidentalis, Arizona 1773
Cinara, Colorado 8285
Lepidoptera, Utah 3036
Ochroleptus fennica, damage 10911
- Picea excelsa* (see *P. abies*)
- Picea glauca*
Choristoneura fumiferana 8836
Canada 8865
damage 1771
Maine 8905, 9949
Ontario 5050
Quebec 8840
Cydia strobilella, Canada 10007
Dasineura swaini, Alaska 1884
Dendroctonus punctatus, Montana 8841
Dendroctonus rufipennis, damage 7010
diets, *Choristoneura fumiferana* 7041
forest pests, Canada 7916
forests, Araneae, Maine 9949
growth regulators, residues 7919
insecticides, toxicity 7913
Strobilomyia anthracina, Ontario 5997
Zeiraphera, New Brunswick 3023
Zeiraphera canadensis, New Brunswick 8853
- Picea glehnii*
Cephalcia isshikii, Japan 1811
Ips typographus, Japan 1850
Pristiphora harai, Japan 10009
- Picea jezoensis*
Cephalcia isshikii, Japan 1811
Ips typographus, Japan 1850
wood, *Coptotermes formosanus*, resistance 7112
- Picea lutzii*, *Dendroctonus rufipennis*, damage 7010
- Picea mariana*
Choristoneura fumiferana, damage 5993
Cydia strobilella, Canada 10007
Dasineura swaini, Alaska 1884
diets, *Choristoneura fumiferana* 7041
insect pests
control, insecticides 7942
Ontario 7942
Polygraphus rufipennis, Manitoba 8844
Scolytidae, Manitoba 6085
Tortricidae, Ontario 7941
- Picea pungens*, *Lymantaria dispar* 8866
- Picea rubens*
Choristoneura fumiferana
damage 7925
Maine 8905, 9949
New Brunswick 7075
forests, Araneae, Maine 9949
insecticides, residues 8892
- Picea rubra*, diets, *Choristoneura fumiferana* 7041
- Picea sitchensis*
forests, *Lonchaea corticis*, British Columbia 7072
Pissodes strobis
British Columbia 7072, 10910, 10934-10935
damage 9981, 10938
Washington 9998
- Picea smithiana*
forests, Chamaemyiidae, India 8917
insect pests, India 8917
- Picea spinulosa*
Curculionidae, Bhutan 8847
Ips schmutzenhoferi, Bhutan 3017, 3039
- Pichia cactophila*, attractants, *Drosophila* 128
- Pichia pinus*, *Dendroctonus ponderosae*, interactions 8236
- Picloram*, effects, *Hyles euphorbiae* 5553
- Picoides major*, prey, Siricidae 9983
- Picoides pubescens*, prey, *Enaphalodes rufulus* 1780
- Picoides villosus*, prey, *Enaphalodes rufulus* 1780
- Picornaviridae**
hosts
Bactrocera tryoni 4706
Drosophila melanogaster 6070
- Picromerus bidens**
biology 10460
genetics 10460
natural enemies 10460
prey, insect pests 10460
rearing techniques 10460
- Pieridae**
biology, reproduction 4368
British Isles 1003
crops, Spain 1373
distribution
Afghanistan 8302
British Columbia 10361
India 7443
Switzerland 159, 7312
physiology, pigments 1074
taxonomy 1003, 7312
- Pierinae**
biology 2300
evolution 2300
- Pieris brassicae**
antifeedants 2250
Bacillus thuringiensis, toxicity 4120
biology, diapause 7418
Brassica
India 611
resistance 10763
Brassica oleracea 2278
cabbages 10768
USSR 5794, 8682
cauliflowers, German Federal Republic 8674
control
insecticides 1972
microbial pesticides 5794
physical control 8674
diets 7418
growth regulators, effects 2200
herbicides, effects 4199
insecticides
effects 7540
pathogenicity 899, 8012, 8014
toxicity 7123, 9051
parasitoids 2511, 8384, 8684, 11447
pathogens 8990
physiology
amines 11301
endocrine system 9251
enzymes 2200, 3276
lipids 2278
muscles 10284
senses 2250, 3314, 9231
plant extracts
antifeedants 611, 8916
effects 7243, 10768
rearing techniques 1210
serum, effects, bacteria 4199
Sinapis arvensis, UK 9530
UK 9051
USSR 1972
- Pieris callidice group**
biology 2300
evolution 2300
- Pieris marginalis**, taxonomy 1041
- Pieris marginalis macdunnoughii**, taxonomy 1041
- Pieris melete**
biology, behaviour 9760
Cruciferae, Japan 3845, 9760
parasitoids 3845, 9760
- Pieris napi**
Alliaria petiolata, Sweden 7564
biology
behaviour 7564, 9760
reproduction 4368
sex ratio 138
cereals, UK 8457
Cruciferae, Japan 9760
herbicides, effects 8457
parasitoids 9760
Spain 1177
UK 138
weeds, UK 9530
- Pieris napi group**
biology 2300
evolution 2300
- Pieris napi japonica**
Cruciferae, Japan 3845
parasitoids 3845
- Pieris occidentalis** (see *Pontia occidentalis*)
- Pieris protodice** (see *Pontia protodice*)
- Pieris rapae**
biochemistry
endocrine system 10306
proteins 11347
biology
behaviour 2318, 2808, 7410, 9760, 9916
phenology 4834, 9327
reproduction 4368, 9771
Brassica, China 4819
Brassica oleracea, Connecticut 9759
cabbages
Bermuda 4828
British Columbia 9768
Netherlands 8680
New York 6870
New Zealand 11696
USA 4834, 8680
USSR 2804, 8682
cauliflowers, Ontario 2806, 4835, 7778
cell lines, pathogens 1957
cereals, UK 8457
control 11696
biological control 4819, 4828
insecticides 2806
Cruciferae, Japan 9760
ecology, distribution 7778
fertilizers, effects 9771
food plants
Egypt 5790
Massachusetts 9916
herbicides, effects 8457
insecticides
effects 9054
pathogenicity 4107
kale, California 9771
Mexico 9327
monitoring 9327
morphology, aberrations 6280
New York 2318
parasitoids 3497, 4495, 5790, 9760, 9768, 11447
pathogens 4110, 5112, 6870
pheromones 8680
physiology
enzymes 46, 2190
proteins 9263
senses 9231
plant extracts
antifeedants 8916
oviposition deterrents 8423
repellents 2581
predators 7532
Raphanus raphanistrum, pollination 1399
sampling 4835
Sinapis arvensis, UK 9530
Spain 1177
- Pieris rapae crucivora**
cabbages, Japan 2808, 6869
Cruciferae, Japan 3845
parasitoids 3845, 6869
- Pieris virginiensis**
Cruciferae, Ohio 10764
food plants, Ohio 3631
- Piezodorus guildinii**
soyabeans
Brazil 655, 4855
Paraguay 3880
- Piezodorus hybneri**
biology 9800
control, insecticides 9800
soyabeans, India 9800
- Piezodorus lituratus**
parasitoids 5933
Pinus, Italy 5933
- Piezodorus rubrofasciatum** (see *P. hybneri*)
- Piezotrachelus**
ectoparasites 3514
Ivory Coast 3514
parasitoids 4465
Vigna unguiculata, commodities 4465

Pigeon pea sterility mosaic VLA, vectors, *Aceria cajani* 6901

Pigeon peas (see *Cajanus cajan*)

Pigeons, insecticides, effects 7174

Pigs, control, Scarabaeidae 6501

Pikonema alaskensis
biology, environmental factors 6441
forest trees, Canada 7063
parasitoids 6441

Pila globosa
insecticides, effects 7209, 8401
physiology
enzymes 8401
metabolism 7545

Piliostigma thoningii, *Caryedon*, Congo 5831

Pimpinella anisum, insecticides, residues 1407

Pimpla disparis
biology 7530
control, *Lymantria dispar* 11815
distribution, North America 11815
hosts, *Lymantria dispar* 7530

Pimpla hypochondriaca
biology, behaviour 8341
hosts, Lepidoptera 2982
Quercus, forests, Romania 2982

Pimpla instigator (see *P. hypochondriaca*)

Pimpla spuria
hosts, *Cydia pomonella* 1555
orchards, USSR 1555

Pimpla turionellae
heavy metals, effects 4523
hosts, *Galleria mellonella* 26, 4523
morphology, reproductive organs 26
pathogens 8023, 11065
physiology, reproduction 9428

Pinaceae
Dichocrocis punctiferalis, Japan 5741
Haematoloma dorsatum, damage 5968
Lymantria dispar 8866

Pine (see *Pinus*)

Pineapples (*Ananas comosus*)
arthropod pests 1597
Dolichotetranychus floridanus, Queensland 8657
insect pests, reviews 3828
insects, Hawaii 3828
Rhynchophorus 11618

α -Pinene
attractants
Coleoptera 803, 822
Hylobius 8873
Hylobius abietis 10920
Pityogenes chalcographus 8835
Tomicus piniperda 5037
Trypodendron 1872
mixtures
attractants, *Hylobius* 8873
effects, *Thanasimus formicarius* 2990
pheromones, *Velocitermes velox* 3578
synergism 8835
(+)- α -Pinene, attractants, *Tomicus piniperda* 794

β -Pinene
attractants
Coleoptera 822
Pityogenes chalcographus 8835
mixtures, pheromones, *Velocitermes velox* 3578
synergism 8835

Pineus boernerii
biology 9971, 11813
Pinus, Connecticut 9971
Pinus resinosa, USA 11813

Pineus coloradensis
biology 11813
Pinus resinosa, USA 11813

Pinus pini, conifers, Africa 7044

Pinnaspis aspidistrae
Citrus, Brazil 5749
insecticides, toxicity 5749
predators 5749

Pinus
Adelgidae 9987
Aphididae, Africa 7044
Atta texana, Texas 10943
Cinara maritimae, Spain 4452
Coleoptera, USSR 5074

***Pinus* cont.**
Dendroctonus terebrans, Texas 8874
Dendrolimus punctatus
China 7019, 9420
damage 7012
Dioryctria, China 5990
extracts, effects, Scolytidae 4035
forests
arthropods, Poland 8879
beneficial arthropods, Hungary 8851
Collembola, Spain 4987
Leptothorax acervorum, Sweden 1843
Microctonus pachylobii, Wisconsin 10984
Ooencyrtus pityocampae, Italy 5933
parasitoids
France 8838
Italy 5932
habitats, *Rhizophagus*, India 1820
Haematoloma dorsatum, damage 5968
Hylobius, Wisconsin 10984
insect growth regulators, residues 10987
insect pests, USSR 810
insecticides, penetration 1793
insects, Italy 5933
Ips sexdentatus, France 8818
Lepidoptera, Spain 7906
Leptophyes punctatissima, UK 9984
Leptothrips, America 3970
litter, *Carinodula campbelli*, Mexico 8895
Lymantria dispar 7933
Lymantria monacha, German Federal Republic 5071
Monochamus alternatus 9974
Japan 7927, 9928
Panolis flammea, German Federal Republic 7079
Pissodes, France 4018
Pissodes castaneus, France 8838
Pissodes strobi, North America 6000
Pissodes validirostris, Europe 6000
Pityomacer nugax, California 5261
plantations, *Aulonium ruficorne*, Israel 5045
Porotermes adamsoni, South Australia 11855
Rhyacionia buoliana, Italy 5934
Rhyacionia frustrana, USA 10929
Scolytidae, Israel 5045, 9938
Sinokele mirabilis, China 5961
Thaumetopoea pityocampa, Italy 5932
Thecodiplosis japonensis
galls 9929-9930
Japan 7912
Korea Republic 843
Tomicus piniperda, Czechoslovakia 794
Tortricidae 11818
wood
Coptotermes formosanus 3073, 4553
Isoptera, damage 8961
Psammotermes hybostoma 3069

Pinus banksiana
Choristoneura pinus, Ontario 10006
Coleoptera, resistance 1787
Conophthorus resinosae, Ontario 9942
insect pests, Ontario 5987
Ips perroti, Manitoba 8844
pest control, nontarget effects 817
Pissodes terminalis, California 8843

Pinus brutia
Matsucoccus josephi, damage 10916
Orthotomicus erosus, Turkey 2950
Thaumetopoea pityocampa, Greece 795

Pinus canariensis, *Matsucoccus josephi*, damage 10916

Pinus caribaea
forests, arthropods, Uganda 4034
Hemiberlesia pitysophila, China 3978
Leucopholis irrorata, resistance 11791

Pinus caribaea caribaea, *Spodoptera dolichos*, damage 10913

Pinus cembroides, *Conophthorus cembroides*, Arizona 9942

Pinus clausa
Carpoborus bicornus, USA 9962

***Pinus clausa* cont.**
habitats, *Neoeucheyla mumai*, USSR 12017

Pinus contorta
Choristoneura occidentalis, Montana 1791
Cinara nigra, North America 10962
Curculionidae, damage 7924
Dendroctonus ponderosae
Montana 1788
Utah 5924
Dichelonyx vicina, Montana 2949
Eucosma sonomana, damage 10927
forests, Ichneumonidae, UK 3011
Neodiprion sertifer, Sweden 3014-3015
Ochroleura fennica, damage 10911
Panolis flammea 5937
outbreaks 7903
UK 3011, 3026, 5077, 5964, 7051
Pissodes terminalis, California 8843
Rhizophagus pseudobrunneus, North America 9139
Rhyacionia buoliana, Chile 10933
Scolytidae, damage 7921

Pinus contorta* var. *latifolia
Cimberis turbans, Oregon 5261
Dendroctonus ponderosae
Alberta 8861
British Columbia 5036, 8867

Pinus coulteri
forests, *Enoclerus lecontei*, USA 8870
Ips paraconfusus, California 8870

Pinus cubensis, *Dioryctria horneana*, damage 4978

Pinus culminicola, *Atopomacer hoplites*, Mexico 5261

Pinus densiflora
Orthotomicus angulatus, Korea Republic 11797
Pseudohypatopa longicornutella, Korea Republic 5047

Pinus echinata
Dendroctonus frontalis
North Carolina 11812
Texas 7028
Thiona bullata, USA 2955

Pinus edulis
Conophthorus edulis, Arizona 9942
forests, *Enoclerus lecontei*, USA 8870
Ips confusus, USA 8870
Neodiprion eduliculus, Arizona 8837

Pinus eldarica, *Matsucoccus josephi*, damage 10916

Pinus elliotii
Hemiberlesia pitysophila, China 3978
insect pests, damage 11790

Pinus elliotii* var. *elliottii
Neodiprion merkei 9978
Orthotomicus caelatus, Florida 10010
wood, *Ips calligraphus* 10044

Pinus excelsa (see *P. wallichiana*)

Pinus flexilis, *Dendroctonus ponderosae*, Alberta 8861

Pinus gerardiana
Pityophthorus cedri 804
Pityophthorus chilgoza 804

Pinus halepensis
Cinara maritimae 1828
Graellsia isabellae 1827
insect pests, Morocco 5984
Matsucoccus josephi
damage 10916-10917
Israel 1182, 1805
Thaumetopoea pityocampa, Greece 2993, 3016

Pinus hartwegii, *Rhyacionia cibriani*, Mexico 799

Pinus jeffreyi, *Eucosma sonomana*, damage 10927

Pinus kesiya
Cinara atrotibialis 1844
India 10978
forests, *Pauesia laricis*, India 10978

Pinus koraiensis
forests
Collembola, Korea Republic 8881
Hymenoptera, China 10939
insect pests, damage 10919
Pissodes nitidus, China 10939

Pinus lambertiana, *Conophthorus ponderosae*, USA 9942

- Pinus leiophylla* var. *chihuahua*,
Conophthorus conicolens, Arizona
 9942
- Pinus leucodermis*, *Pityogenes bidentatus*,
 New York 834
- Pinus longifolia* (see *P. roxburghii*)
- Pinus luchuensis*
Erthesina fullo, Taiwan 7069
Hemiberlesia pitysophila, Japan 5951
- Pinus massoniana*, *Hemiberlesia*
pitysophila, China 3978
- Pinus merkusii*, *Milionia basalis*, damage
 8816
- Pinus monophylla*
 forests, *Enoclerus lecontei*, USA 8870
Ips confusus, USA 8870
- Pinus monticola*
Cimberis decipiens, British Columbia
 5261
Conophthorus ponderosae, USA 9942
 insect pests, damage 6006
- Pinus mugo*
Eulachnus intermedius, Italy 7032
Grypotes puncticollis, USA 11794
- Pinus muricata*, *Pissodes terminalis*, Cali-
 fornia 8843
- Pinus nigra*
 Cerambycidae, Spain 7020
Dendrolimus pini, damage 8851
 forests, Hymenoptera, Italy 5002
Graellsia isabellae, Europe 1827
 insect pests, Italy 2978
 Siricidae, UK 9983
Thaumetopoea pityocampa, Italy 5002
- Pinus oocarpa*, *Rhyacionia rubigifasciola*,
 Mexico 799
- Pinus pinaster*, *Thaumetopoea pityo-*
campa, damage 1795
- Pinus pinaster*
 Cerambycidae, Spain 7020
Dioryctria sylvestrella, France 1846
 extracts, toxicity, insects 11042
Graellsia isabellae 1827
Hyllobius abietis, France 8820
 insect pests, Morocco 5984
Loensia pearmani, Spain 8830
Matsucoccus josephi, damage 10916
Tomicus piniperda, France 7963
- Pinus pinea*
Graellsia isabellae 1827
 insect pests, Morocco 5984
Matsucoccus josephi, damage 10916
Rhyacionia buoliana 3971
- Pinus ponderosa*
Bius estriatus, California 3983
Cecidomyia piniinopsis
 damage 10940
 varietal susceptibility 10941
Choristoneura occidentalis, Montana
 1791
Coloradia pandora, damage 11821
Conophthorus ponderosae, USA 9942
Dendroctonus 10945
Eucosma sonomana
 California 10928
 damage 10927
 Oregon 5973
 forests, *Enoclerus lecontei*, USA 8870
 insect pests
 Arizona 11823
 damage 3003
 USA 5991
 insecticides, residues 1845
Ips lecontei, Arizona 8870
Ips paraconfusus 7061
Neodiprion fulviceps 9956
 Arizona 8837
Rhizophagus pseudobrunneus, North
 America 9139
Rhyacionia zozana, Oregon 1866
- Pinus pumila*
Neodiprion sertifer, Japan 9944
 Symphyta, damage 1860
- Pinus pungens*
Dioryctria yatesi, Virginia 4008
 habitats, Formicidae, Virginia 4008
- Pinus radiata*
Cecidomyia, damage 8901
Conophthorus radiatae, California
 9942
 habitats, Araneae, California 8906
- Pinus radiata* cont.
Matsucoccus josephi, damage 10916
Pissodes terminalis, California 8843
Rhyacionia buoliana
 Chile 10933
 damage 10932
Sirex noctilio, damage 10937
- Pinus resinosa*
 Coleoptera, resistance 1787
Conophthorus resinosa
 Michigan 6010
 Ontario 9942
 forests, predatory insects, Wisconsin
 10955
 Hemiptera, Connecticut 9971
 insect pests, damage 11793
Ips pini, Wisconsin 10955
Pineus, USA 11813
- Pinus roxburghii*
 extracts, effects, Isoptera 1794
 oils, effects, *Sitophilus oryzae* 5097
 wood
 Isoptera
 damage 1794
 Pakistan 863
- Pinus sabiniana*, *Lecontellus pinicola*, Cal-
 ifornia 5261
- Pinus strobus*
Conophthorus coniperda, North
 America 9942
Dendroctonus frontalis, North Carolina
 7957
Dendrolimus pini, Netherlands 8903
Hylastes pales, varietal susceptibility
 10922
 insect pests, interactions 3973
Lymantria dispar 10957
Pissodes strobi, Quebec 3032
Thyridopteryx ephemeraeformis, Vir-
 ginia 4996
- Pinus sylvestris* 1825
Aradus cinnamomeus, Finland 1784,
 7905, 10975
 Cecidomyiidae, German Federal
 Republic 10942
Chionaspis pinifoliae, Iowa 7962
 Cicadellidae, USA 11794
 Coleoptera, Sweden 803
 Curculionidae, Wisconsin 5949, 8896
Dendrolimus pini, damage 8851
Diprion pini, France 790
 Diprionidae 5056, 5977
 Czechoslovakia 5978
 forests
 Coleoptera, Poland 4979
 Ichneumonidae, UK 3011
Graellsia isabellae, Europe 1827
Gravata marmarotana, France
 5996
 heavy metals, pollutants 5056
Hylastes pales, varietal susceptibility
 10922
Hyllobius abietis
 Czechoslovakia 8825
 France 8820
Hylotrupes bajulus, German Federal
 Republic 2994
 insect pests
 damage 10926
 German Democratic Republic 7932
Ips acuminatus, Norway 11848
Ips sexdentatus, France 7963, 9980
 Lepidoptera 7945
 Finland 9958
Monochamus sutor, Norway 1819
Neodiprion sertifer
 Poland 7066
 Sweden 3014, 5078
 USSR 1832
Panolis flammea, UK 3011, 7051
Petrova resinella, galls 5922-5923
 Psocoptera, Spain 8830
Rhyacionia piniana 4392
 Scolytidae, Sweden 801
 Siricidae, UK 9983
Sphinx pinastri, Finland 1835
Tomicus, Sweden 1778
Tomicus piniperda
 France 9999
 Poland 4979
 Sweden 5037, 9986, 10973
- Pinus sylvestris* cont.
 wood, *Medetera pinicola*, UK 3071
 woodlands, *Callicera rufa*, UK 9979
- Pinus taeda*
 Acari, phoresy 5015
 Coleoptera, Texas 8898
Contarinia acuta, Louisiana 4995
Dendroctonus frontalis, Texas 7028,
 11825
Dioryctria taedivorella, USA 4994
 forests
Neopilemannia taeda, North
 Carolina 2975
Pymotes emarginatus, Louisiana
 4995
Hemiberlesia pitysophila, China 3978
Ips calligraphus 5015
Neodiprion taedae, Arkansas 5005
 nurseries, beneficial insects, Georgia
 8839
Oracella acuta, Georgia 11801
 plantations, parasitoids, Georgia 11801
Pseudophilippia quaintancii, Georgia
 7936
Rhyacionia
 Georgia 10930
 USA 10936
Rhyacionia frustrana, resistance 10931
Spodoptera dolichos, damage 10913
Thiona bullata, USA 2955
Toumeyella pini, Georgia 8839
- Pinus thunbergiana*
Hemiberlesia pitysophila, China 3978
 Hemiptera, Connecticut 9971
- Pinus thunbergii*
Monochamus alternatus, Japan 7027,
 9945
Platyphypoptus thunbergii, China 5948
- Pinus uncinata*, *Graellsia isabellae*,
 Europe 1827
- Pinus virginiana*
Carpoborus bicornus, USA 9962
Thiona bullata, USA 2955
- Pinus wallichiana*
Cinara maculipes 8878
 India 10981
 forests, *Paesia orientalis*, India 10981
Ips schmutzenhoferi, Bhutan 3039
 wood, Isoptera, damage 1794
- Pinus yunnanensis*, *Neodiprion guangxi-*
icus, China 2974
- Pinyon pine* (see *Pinus edulis*)
- Piper*, *Helicoverpa assulta*, Korea Repub-
 lic 4898
- Piper arieianum*, insect pests, Costa Rica
 8826
- Piper methysticum*, *Baeturia maddisoni*,
 Oceania 10239
- Piper nigrum*
 arthropod pests
 biology 6233
 control 6233
 damage 6233
 natural enemies 6233
Cryptozona semirugata, India 10496
Dasynus piperis, Indonesia 10531
Delia antiqua 715
 extracts, insecticidal properties 4228
 insect pests
 India 3637, 9508
 Indonesia 10530
Liothrips karnyi 11521
Neodicrothrix piperiae, India 10738
 Sarawak, reports 7299
 Syngia, India 7846
- Piperonyl butoxide* (5-[[(2-butoxyethoxy)
 ethoxy]methyl]-6-propyl-1,3-benzodi-
 oxole)
 analysis 3199
 mixtures, toxicity, *Heliothis virescens*
 11976
 residues, water 3199
 synergism 2798, 5179, 5191, 5193,
 6165, 7839, 8089, 8624, 8670,
 10106, 11169-11170, 11978
 toxicity, *Heliothis virescens* 11170
- Pipunculidae*
 distribution, Europe 4491
 fire, effects 7670
 grasslands, Utah 7670

- Pipunculidae** *cont.*
 hosts
 Auchenorrhyncha 4491
 Hemiptera 8514, 9438
 monitoring, traps 7670
 rice, fields, India 8514
 UK 9438
- Pipunculus javanensis**
 biology 5645
 behaviour 435
 hosts, *Nephotettix cincticeps* 435, 5645
 rice, fields, Japan 435, 5645
- Pipunculus mutillatus**
 biology 5645
 behaviour 435
 hosts, *Nephotettix cincticeps* 435, 5645
 rice, fields, Japan 435, 5645
- Pipunculus orientalis**
 biology 5645
 hosts, *Nephotettix cincticeps* 5645
 rice, fields, Japan 5645
- Piranea juncii**, taxonomy, new species 11814
- Piranea spartii**, *Spartium junceum*, Yugoslavia 11814
- Pirata piratoides**
 ecology, population dynamics 11556
 prey, Hemiptera 11556
 rice, fields, China 11556
- Pirata subpiraticus**
 biology, behaviour 3691
 ecology, population dynamics 11556
 prey
 Delphacidae 3691
 Hemiptera 11556
- rice
 fields
 China 11556
 Korea Republic 3691
- Pirene penetrans**
 hosts, *Sitodiplosis mosellana* 6705
 morphology 6705
 wheat, fields, Saskatchewan 6705
- Pirimicarb** (2-(dimethylamino)-5,6-dimethyl-4-pyrimidinyl dimethylcarbamate)
 control
 Aphididae 1432, 3662, 8558
Aphis gossypii 7785
 apples, arthropod pests 2742
Myzus persicae 4874, 5838, 7818
Nasonovia ribisnigri 597
Sitobion avenae 5605, 8459
- effects
Amblyseius victoriensis 8632
Apis mellifera 3585
Diaeretiella rapae 8677
Episyrphus balteatus 2480
- mixtures
 control
 cotton, insect pests 746
 wheat, insect pests 4627
 toxicity, *Myzus persicae* 6158
- nontarget effects
 Aphididae, predators 1432
 Carabidae 1525
 mammals 8109
 parasitoids 5484
 predatory insects 3662
- resistance, *Myzus persicae* 6157-6158
- toxicity
Myzus 6920
Pieris brassicae 9051
- Pirimiphos-methyl** (*O*-[2-(diethylamino)-6-methyl-4-pyrimidinyl] *O,O*-dimethyl phosphorothioate)
 control
Bothynoderes punctiventris 2857
Bradysia tritici 599
Curculio nucum 3773
Eurygaster integriceps 3660
 greenhouses, arthropod pests 1599
Paraphytomyza luteoscutellata 8806
Planchonia arabis 782
 potatoes, arthropod pests 1683
Quercus, Lepidoptera 1768
 tomatoes, insect pests 728
Tyrophagus putrescentiae 7121
- effects
Apis mellifera 3585
- Pirimiphos-methyl** *cont.*
 effects *cont.*
 rats 7210
 formulations, dusts 6033
 mixtures, control, *Prostephanus truncatus* 3055
 nontarget effects, *Cicer arietinum* 1672
 residues
 cereal grains 7105
 determination 4201
 onions 3911
 potatoes, commodities 5085
 stored products 10184
 tomatoes 4201
- resistance
Chilo suppressalis 10112
 Coleoptera 7108, 8952
Tetranychus urticae 3161
Tribolium castaneum 11171-11172
 synergism 3148, 10112
- toxicity
Callosobruchus maculatus 1672
 Coleoptera 3148
Pieris brassicae 9051
Scutovertex sculptus 2009
Sitophilus granarius 6033
Sitophilus oryzae 5093
Sitophilus zeamais 10028
 stored products pests 5092
Tribolium castaneum 1905, 5091, 7975
 wheat, commodities 11026
- Pirimor** (see Pirimicarb)
- Pisaurina mira**
 Mississippi 8377
 prey, arthropods 8377
- Pison morosum**
 biology, behaviour 4472
 New Zealand 4472
 prey, Araneae 4472
- Pissodes**
 conifers, habitats, Europe 6000
 parasitoids 6000
- Pissodes castaneus**
 biology 8819
 control 8819
 ecology, population dynamics 8838
 parasitoids 8838
Pinus, France 4018, 8838
 taxonomy 4018
- Pissodes fasciatus**
 plant pathogens, transmission 10923
Pseudotsuga menziesii 10923
- Pissodes nitidus**
 biology, development 10939
 parasitoids 10939
Pinus koraiensis, China 10939
- Pissodes notatus** (see *P. castaneus*)
- Pissodes strobi**
 biology
 behaviour 9981
 diapause 9998
 conifers, North America 6000
 cultural methods, effects 10935
 forest trees, British Columbia 11811
Picea sitchensis
 British Columbia 7072, 10910, 10934-10935, 10938
 France 9981
 Washington 9998
Pinus strobus, Quebec 3032
 predators 7072, 10934, 11811
- Pissodes terminalis**
 biology 7924, 8843
 control 7924
 forest trees, British Columbia 7924
Pinus, California 8843
- Pissodes validirostris**
 parasitoids 6000
Pinus
 Europe 6000
 France 4018
 taxonomy 4018
- Pissodinae**, taxonomy 3246
- Pistachios** (*Pistacia vera*)
 commodities, *Corcyra cephalonica* 7995
Hyalesthes obsoletus, Turkey 9645
 Lepidoptera, USSR 4726
 pest control, Australia 9132
- Pistacia**, *Teleiopsis* 2128
- Pistacia atlantica**, *Slavum wertheimae*, galls 5921
- Pistacia lentiscus**, *Aploneura lentisci*, galls 6668
- Pistacia terebinthus**
 forests, *Brachymeria intermedia*, France 3012
Lymantria dispar, outbreaks 3012
- Pistia stratiotes**
Argentinorhynchus, America 6638
Argentinorhynchus minimus, Venezuela 7552
 biological control 9492
 biological control agents, evaluation 2569, 5556
 Florida 9492
Forcipomyia dolichopodida, Florida 6657
Neohydronomus, South America 7559
Pistiacola, South America 9497
 South Africa 2569
 USA 5556
- Pistiacola**, taxonomy, new genus 9497
- Pistiacola cretatus**
Pistia stratiotes, South America 9497
 taxonomy, from *Onychylis* 9497
- Pistiacola fasciatus**
Pistia stratiotes, South America 9497
 taxonomy, new species 9497
- Pisum**, *Chromatomyia syngenesiae* 6456
- Pisum sativum** (see Peas)
- Pithecellobium tortum**, *Allorhogas*, Brazil 835
- Pittacastis cocae**, *Erythroxylum coca*, Peru 3638
- Pittosporum tobira**
 Aphididae, China 4921
 habitats, *Cryptochetum iceryae*, California 8640
Iceya purchasi, California 8640
- Pityogenes**, taxonomy 834
- Pityogenes bidentatus**
 biology 834
 monitoring, traps 801
 parasitoids 11434
Pinus leucodermis, New York 834
Pinus sylvestris, Sweden 801
 UK 11434
- Pityogenes calcaratus**
 natural enemies 9938
Pinus, Israel 5045, 9938
 predators 5045
- Pityogenes chalcographus**
 attractants 5979
 control, trapping 5979
 forest trees, USSR 7065
 monitoring, traps 801, 7065
 pheromones 63, 8835
 physiology, enzymes 5072
Picea, Austria 5979
Picea abies 5072, 8835
Pinus sylvestris, Sweden 801
 plant extracts, effects 8835
- Pityogenes quadridens**
 monitoring, traps 801
Pinus sylvestris, Sweden 801
- Pityokteines**
 biology 9329
 distribution, Mexico 9329
- Pityokteines sparsus**
Abies balsamea, Manitoba 5962
 forest trees, Manitoba 7055
 pathogens 5962, 7055
- Pityolure** (see (Z)-13-Hexadecen-11-ynyl acetate)
- Pityomacer**, taxonomy, new genus 5261
- Pityomacer nugax**
Pinus, California 5261
 taxonomy, new species 5261
- Pityophthorus cedri**
 forest trees 804
 taxonomy, new species 804
- Pityophthorus chilgoza**
Pinus gerardiana 804
 taxonomy, new species 804
- Pityophthorus glutae**
Gluta travancoria 804
 taxonomy, new species 804
- Pityophthorus pityographus**, pheromones 8907

Placusa atrata
biology 4979
Pinus sylvestris, forests, Poland 4979
Tomicus piniperda, interactions 4979

Placusa depressa
biology 4979
Pinus sylvestris, forests, Poland 4979
Tomicus piniperda, interactions 4979

Plagioidera erythroptera
biology 5946
forest trees, Argentina 5946
morphology 5946

Plagioidera versicolora
biology 5930
behaviour 9996
cannibalism 3034
diapause 3010
control 5966
evolution 3034
forest trees, food preferences 5031
pollution, effects 5929
Populus, Italy 5966
Populus deltoides 5929-5930
Salix, USA 3010, 3034
Salix alba, Maryland 9996

Plagiognathus chrysanthemi, *Lotus corniculatus*, Wisconsin 1528, 9628

Plagiopsis
taxonomy 3490
USSR 3490

Plagiopsis pygmaea
biology 11426
France 11426
taxonomy 3490
USSR 3490

Plagiopsis schmitzii, physiology, spermatogenesis 11326

Plagionotus arcuatus
biology, phenology 11396
Quercus, Spain 11396

Planchonia arabis
biology 782, 11523
control, insecticides 782
Hedera taurica, USSR 782
parasitoids 782
Thymus, Italy 11523

Planchonia careyi, *Bactrocera*, New South Wales 9644

Planera aquatica, *Hylocurus*, Florida 9962

Planipennia, checklists, Nicaragua 5235

Planococcoides cubanensis, taxonomy, synonyms, of *Planococcus citri* 16

Planococcoides njalensis
cocoa, Ghana 10875
sampling 10875

Planococcus, taxonomy 16

Planococcus citri
Annona muricata, Trinidad and Tobago 1596
biology 521, 1552, 8794
development 9834
Citrus, India 10726
cocoa
Brazil 4948
Ghana 10875
coffee 8794
control 521
biological control 3129, 7747
insecticides 1552
Crematogaster brevispinosa, interactions 1754
dates, Libya 1545
food plants 9834
fruits, Queensland 7747
grapes
Taiwan 1552
USSR 521
Italy 3129
natural enemies 1545, 7747
ornamental plants, Egypt 776
parasitoids 4482, 10726
predators 1290, 8389
sampling 10875
Schomburgkia tibicinis, Mexico 1754
taxonomy, synonyms 16, 11788

Planococcus curcurbitae, taxonomy, synonyms, of *Planococcus citri* 16

Planococcus ficus
figs, Iran 566
plant pathogens, transmission 566

Planococcus ficus cont.
taxonomy, synonyms, *Dactylopius subterraneus* 16

Planococcus fungicola
coffee, Africa 7887
Diacanthodes novoguineensis, interactions 7887
taxonomy, new species 7887

Planococcus japonicus
food plants 16
taxonomy, new species 16

Planococcus kenya, taxonomy, synonyms, *Planococcus subukiaensis* 16

Planococcus kraunhiae, taxonomy, synonyms, *Planococcus siakwanensis* 16

Planococcus lilacinus
taxonomy
synonyms
Dactylopius coffeae 7887
Pseudococcus deceptor 16

Planococcus litchi
food plants 16
taxonomy, new species 16

Planococcus minor
grapes, India 4717
taxonomy, synonyms, *Planococcus pacificus* 16

Planococcus orchidi
Orchidaceae 16
taxonomy, new species 16

Planococcus pacificus (see *P. minor*)
taxonomy, synonyms, of *Planococcus minor* 16

Planococcus princeps
cocoa 16
taxonomy, new species 16

Planococcus psidii
guavas 16
taxonomy, new species 16

Planococcus radicum
coffee, Africa 7887
taxonomy, new species 7887

Planococcus siakwanensis, taxonomy, synonyms, of *Planococcus kraunhiae* 16

Planococcus subukiaensis, taxonomy, synonyms, of *Planococcus kenya* 16

Planococcus sulawesi
taxonomy, new species 16
Urticaceae 16

Planococcus tanzaniensis
Hevea brasiliensis 16
taxonomy, new species 16

Planotortrix excessana
biology, development 8546
food plants 8546
physiology, pheromones 61
rearing techniques 4421

Plant breeding
reviews, books 9121
UK, reports 8184

Plant density
effects
Helicoverpa armigera 2852
soyabeans, insect pests 4863

Plant diseases
vectors
control 3089
insects 3088

Plant extracts
antifeedants, insects 3137
pest control 3090, 3167, 4151, 4295

Plant growth regulators
control, *Pectinophora gossypiella* 10862
effects, *Heliothis virescens* 4926

Plant oils, effects, Delphacidae 3700

Plant pathogens
biological control agents, interactions 10517
conferences 9128
detection 1396, 10680
USA, conferences 9127
vectors
control 3089
detection 11899
France, conferences 2109
insect pests 12019
insects, reviews 11060
movement, radiography 11061

Plant protection

Belgium 9136
bibliographies 4221-4222
biotechnology 1965
books 4224
chemicals, controlled release, books 10188
chemistry 10183
books 10182
conferences 10204-10205, 11268
economics 11117
equipment
legislation 11126
testing 11125
Europe, books 10199
Hungary, conferences 4600
information 5142-5144
conferences 5239
law, German Federal Republic 1983
meteorology, reports 5244
models 9011
Netherlands
conferences 1014
reports 3145, 4246
reports 10223
research
directories 2123
India 7249
Switzerland, conferences 8189

Plant resistance (see Pest resistance)

Plant sciences, Irish Republic, reports 9138

Plant viruses
detection 5770, 6056, 10846
vectors
Aphididae 1421, 8447, 10787
reviews 6059
arthropod pests 11899
Auchenorrhyncha, reviews 3109
control 3089
reviews 3090
detection 5837
Hemiptera 6702, 11902
insects 3088, 6056
Macrosiphum albifrons 10869

Plantaginaceae, extracts, repellents, *Leptinotarsa decemlineata* 6922

Plantago antarctica, *Apina callisto*, Australian Capital Territory 8421

Plantago aristata, *Prionosoma podopoides*, South Carolina 2561

Plantago erecta, *Occidryas editha*, California 2366

Plantago insularis, Formicidae 4458

Plantago lanceolata
Dichroplis elongatus 2403
Junonia coenia 338, 11376
Junonia villida, New South Wales 2559

Plantago major
Cicadellidae 3785
Dichroplis elongatus 2403

Plantago yellowing, vectors, *Macrosteles laevis* 3785

Plantains (see Bananas)

Plantation crops
India, reports 11277
pest control 9488, 11277

Plants
Acari
Australasia 7909
interactions 10464
Aphididae, damage 7278
arthropod pests, interactions, books 11254
arthropods
evolution 5546
interactions 7556, 11124
evolution 11009
Cecidomyiidae, galls, evolution 10445
Diptera, galls, books 10197
Formicidae
fungi, interactions 7485
interactions 5432, 10426
conferences 10423
herbivores
interactions
models 6449
reviews 5173
insect pests, Brazil, books 7259
insecticidal properties 1411

- Plants** *cont.*
insecticides, residues 3202
insects
interactions 4318, 6009, 6394, 9027, 10352
books 6225, 8170
reviews 2557, 6406
mites, Egypt 324
pest resistance, genetic engineering 11121
roots, heaters 2389
secondary metabolites, immunoassay 10182
soil insects, interactions 10095
- Plastic film**, control, Diptera 3077
- Platanaceae**, *Papilio alexiares*, Mexico 10896
- Platanthera huronensis**
insects, pollination 7889
pollinators, Colorado 7889
- Platanus**
Corythucha ciliata
Austria 11001
Switzerland 5965
- Platanus acerifolia**
Corythucha ciliata
damage 5018
Europe 4973
Italy 2980, 8807
Rhyncaphytoptus platani, German Federal Republic 5073
- Platanus hybrida** (see *P. acerifolia*)
- Platanus occidentalis**
Neochlamisus platani, Maryland 5016
Prodiplosis platani, Maryland 1868
- Platanus orientalis**
extracts, effects, Isoptera 1794
wood, Isoptera, damage 1794
- Plathypena scabra**
biology 6572
control, insecticides 3873
ecology, population dynamics 11729
identification 6893
insecticides, effects 10802
Mesochorus discitergus, interactions 6572
morphology, eggs 6893
natural enemies 5819, 10802
parasitoids 3496, 6572
Phaseolus vulgaris, Arkansas 3873
predators 8710
soybeans
Florida 6893, 11729
Kentucky 5819, 8710
South Carolina 10802
varietal susceptibility 8715
- Platycheirus fulviventris**
biology, behaviour 339
morphology 339
Phragmites australis, habitats, UK 339
prey, *Hyalopterus pruni* 339
- Platycheilus**, habitats, France 8284
- Platycheilus affinis**
biology 7432
Spain 7432
- Platycheilus intermedia**
genetics, karyotypes 3471
USSR 3471
- Platygaster**, hosts, *Neolasioptera rostrata* 3618
- Platygaster contorticornis**
hosts, *Kaltenbachiola strobi* 5999
USSR 5999
- Platygaster oryzae**
hosts, *Orseolia oryzae* 7626, 10610
insecticides, effects 10610
rice, fields, India 10610
- Platygasteridae**
America 5491
hosts, *Kaltenbachiola strobi* 5999
taxonomy 5491
- Platygasterinae**
America 5491
biology 5491
taxonomy 5491
- Platynota flavedana**
apples, USA 3791
biology, environmental factors 3459
Hypericum, USA 3613
monitoring, traps 3791
plant extracts, toxicity 332
- Platynota idaeusalis**
apples
commodities, damage 3075
Pennsylvania 3795, 6813, 8585, 9686, 11641
USA 3791, 6815, 8604
biology
behaviour 9686
environmental factors 3459
control, insecticides 8585
forecasting 11641
insecticides
resistance 3795, 6815, 8604
toxicity 6813
monitoring, traps 3791, 6815, 11641
physiology, enzymes 2196
- Platynothrus peltifer**, physiology, reproduction 1111
- Platynus dorsalis** (see *Agonum dorsale*)
- Platypalpus**, Italy 3425
- Platyphytoptus thunbergii**
Pinus thunbergii, China 5948
taxonomy, new species 5948
- Platypodidae**
America 9329
biology 9329
forest trees
Korea Republic 11380
Solomon Islands 838
fungi
interactions 4036
reviews 5062
logs, Japan 4078-4079
taxonomy 4078
- Platyptilia williamsii**
Apterothrips septicornis, interactions 462
California 462
Erigeron glaucus, California 3632
Philaenus spumarius, interactions 3632
predators 3632
- Platypus caviceps**
biology, behaviour 808
Nothofagus solandri, New Zealand 808
- Platypus compositus** 7043
biology 7043
forest trees, Florida 7043
- Platypus flavicornis** 7043
biology 7043
forest trees, Florida 7043
- Platypus parallelus** 7043
biology 7043
distribution, maps 6456
food plants 6456
forest trees, Florida 7043
- Platypus quadridentatus** 7043
biology 7043
forest trees, Florida 7043
- Platyseiella marikae**
Dryopteris, habitats, South Africa 11525
taxonomy, new species 11525
- Platysoma**
ecology, population dynamics 9938
Israel 9938
prey, Scolytidae 9938
- Platysoma cylindricum**
attractants 10955
biology, behaviour 10955
Pinus resinosa, forests, Wisconsin 10955
prey, *Ips pini* 10955
- Platystasius asinus**, taxonomy, to *Fidiobia* 5491
- Platystasius benjamini**, taxonomy, to *Fidiobia* 5491
- Platystasius citri**, taxonomy, to *Fidiobia* 5491
- Platytenomus**, taxonomy, synonyms, of *Telenomus* 1332
- Platytenomus busseolae**
biology 8481
hosts, *Sesamia nonagrioides* 8481
maize, fields, Greece 8481
- Platytranychus multigitoli**
control 3035
Gleditsia 3035
- Plautia stali**
Bacillus polymyxa, symbiosis 3104
biology, diapause 5742
- Plautia stali** *cont.*
physiology, endocrine system 5742
symbionts, antimicrobial properties 3104
- Plebejus argus**
biology, behaviour 9328
Lasius niger, interactions 140, 9328
Switzerland 9328
- Plebejus emigdionis** (see *Plebulina emigdionis*)
- Plebulina emigdionis**, parasitoids 5462
- Plecoptera**
Australia, catalogues 12031
ecology 12031
food, man 1355
insecticides, effects 11190
taxonomy 12031
- Plectrodera scalator**
control, microbial pesticides 3984
Populus deltoides, Kentucky 3984
- Plegaderus discisus**
ecology, population dynamics 9938
taxonomy 9938
prey, Scolytidae 9938
- Plegaderus vulneratus**
biology 4979
Pinus sylvestris, forests, Poland 4979
Tomicus piniperda, interactions 4979
- Pleiolblastus amarus**, *Macropes har-ringtonae*, China 8440
- Pleiolblastus variegatus**, *Idiococcus bambusae*, Japan 1419
- Pleioygnium solandri**, wood, *Psammotermes hybostoma*, damage 3067
- Pleistophora**, hosts, insects 7126
- Pleistophora oncoperae**, hosts, *Wiseana* 11602
- Plemeliella abietina**
biology, diapause 5995
parasitoids 9997
Picea, Poland 9997
- Pleolophus**
Europe 8210
taxonomy 8210
- Pleonomus canaliculatus**, biology, environmental factors 393
- Plesiocoris rugicollis**
biology 511
control, insecticides 511
small fruits, USSR 511
- Plesiophthalmus**, taxonomy 9141
- Pleuronectiformes**, pesticides, residues 11993
- Pleurophorus caesus**
biology, phenology 1211
rabbit droppings, Spain 1211
- Pleurotus**, *Bleptina*, China 6861
- Pleurotus cystidiosus**, acaricides, residues 9751
- Pleurotus ostreatus**
acaricides, residues 9751
Cecidomyiidae 2791
commodities, *Mycophila*, Japan 10020
- Plodia interpunctella**
attractants 721
barley, commodities, Minnesota 11880
biology 6039
behaviour 10340
reproduction 8943
control
biological control 11053
microbial pesticides 6027
groundnuts
commodities 6046, 11053
USA 11895
insecticides
pathogenicity 11915
resistance 8086, 11895
toxicity 6046, 11030
maize, commodities 11030
microbial pesticides, resistance 9023
morphology 6039
parasitoids 4484, 5460, 5462
pathogens 10074
physiology
chemical composition 1124
fat body 9210
radiation, effects 5081
sorghum, commodities 8943
stored products
China 10019

- Plodia interpunctella* cont.
stored products cont.
damage 5081
USA 10074
- Plotococcus eugeniae*
Eugenia, Florida 1762
predators 1762
- Ploughing, effects, Scarabaeidae 2338
- Plumbagin, effects, *Dysdercus cingulatus* 2267
- Plums
Acari, damage 2694
Achelura bifasciata, damage 3775
Anarsia lineatella, Iraq 4705
Apate monachus, Cuba 1580
arthropod pests, Italy 11635-11636
Brachycaudus semisubterraneus, German Democratic Republic 4764
Chymomyza amoena, USA 10711
Coccoidea, Europe 2695
commodities, *Anastrepha suspensa* 3074
Cydia, Switzerland 727
Cydia dimorpha, Japan 3802
Cydia funebrana
China 5740
USSR 561, 2749
Cydia lobarzewskii
Europe 5737
Switzerland 8581
Cydia pomonella, Iraq 5721
Hyalopterus pruni, India 4763
Lasioderma serricorne 11638
Lepidoptera, Korea Republic 3747
orchards
beneficial arthropods, India 4763
predatory mites, Pakistan 11652
Proctolaelaps pruni, German Democratic Republic 4765
Paradirpha 10690
Phorodon humuli, German Federal Republic 6673
Phyllonorycter, Italy 3776
Quadraspidiotus ostreaeformis, New Zealand 5719
Quadraspidiotus perniciosus, Pakistan 11652
Scolytus mali, German Democratic Republic 4765
Tortricidae
Italy 536
South Africa 9675
Zyginella pulchra, Iran 3778
- Plusia
biology, phenology 9799
parasitoids 1687
soyabeans, Japan 9799
- Plusia circumflexa* (see *Cornutiplusia circumflexa*)
- Plusia eriosoma* (see *Chrysodeixis eriosoma*)
- Plusia nigrisigna* (see *Autographa nigrisigna*)
- Plusia orichalcea* (see *Thysanoplusia orichalcea*)
- Plusiinae
Cape Verde 907
control, biological control 907
- Plutella maculipennis* (see *P. xylostella*)
- Plutella xylostella*
Asia 6404
attractants 721, 4833, 9758
biology 5788
behaviour 5185, 6161, 9758, 9773, 9775
development 1640, 4833, 6404
diapause 3373, 5362
environmental factors 3844, 8275, 10770
food consumption 4829
phenology 4834, 7775
- Brassica* 5783
India 11694
resistance 10763
Singapore 7775
- Brassica oleracea* 1640
Connecticut 9759
broccoli, Virginia 1620
cabbages 4829, 8085, 9764, 10770
Brazil 4823
Burkina Faso 6676
- Plutella xylostella* cont.
cabbages cont.
Costa Rica 4825, 5788
Egypt 1625
Florida 3852
Hawaii 2809
India 2805, 9765
Indonesia 11695
Japan 4831, 4833, 7779
resistance 9773
Taiwan 5791
USA 4834
USSR 2804, 5794, 8681-8682
Cape Verde 907, 3133
cauliflowers
German Federal Republic 8674
Ontario 2806, 4835
cell lines, pathogens 4140
Chinese cabbages, Malaysia 11059
cold resistance 2811
control 4825, 10100
biological control 907, 5791
growth regulators 3852
insecticides 2805-2806, 4823, 6676, 8681, 9765, 11695
integrated control 3133
mating disruption 9767
microbial pesticides 4818, 5794
physical control 8674, 11059
crops, Finland 9486
Cruciferae 1612
China 3844, 9767
Taiwan 4818
varietal susceptibility 5780
food plants, Pakistan 225
genetics, insecticide resistance 2809
Hawaii 1971
Indian mustard 9775
insecticides
effects 6161
metabolism 11169
pathogenicity 9006
resistance 2809, 4831, 5186, 7779, 8670, 10106, 11169, 11694
resistant 1123
toxicity 941, 2798, 5185, 5783, 8085, 9764, 10107, 10110, 11963
Iraq 1205
Japan 3373, 6880, 7768, 8670, 10106
monitoring, traps 1205, 4833, 9767
natural enemies 1640, 1971, 7768
Ohio 8085
parasitoids 225, 235, 1612, 1620, 1625, 4825, 5788, 6880, 7769-7773, 7775
pathogens 1612, 1640, 6088, 10057
pheromones 6305, 9767
physiology
enzymes 1123, 6305, 8226
haemolymph 6316
plant extracts
effects 9773
repellents 7579
toxicity 10116
radishes 2811
research, conferences 10214
sampling 4835
Taiwan 11169
Thailand 2798, 5783
- Pluteus*, *Pallodes* 600
- Pneumolaelaps longanalis*
biology, behaviour 4460
Bombycidae, phoresy 4460
- Pnigalio*
greenhouses, Italy 11779
hosts, *Liriomyza trifolii* 11779
- Pnigalio flavipes*
apples, orchards, Washington 9687
biology, behaviour 9687
hosts, *Phyllonorycter elmaella* 9687
- Pnigalio soemius*
biology, behaviour 541
hosts, *Phyllonorycter cydoniella* 541
- Pnyxia scabiei*, control, *Rhizoctonia solani* 4872
- Poa
Chrysoteuchia topiaria, Oregon 8529
Hispa atra, Turkey 9493
- Poa annua*, *Listronotus bonariensis*, New Zealand 1518
- Poa pratensis*
Delia fabricii, Norway 4680
Parapediasia teterrella, Kentucky 10640
Schizaphis graminum 5679
- Podabrus pruinosis*, pathogens 4091
- Podisma pedestris*
France 3360
genetics, population genetics 3360
- Podisus*, control, *Leptinotarsa decemlineata* 8764
- Podisus maculiventris*
biology 6923
control, *Leptinotarsa decemlineata* 8764
ecology, population dynamics 5818
monitoring, traps 9331
parasitoids 2452, 5469
Poland 6923
prey
detection 7532
Epilachna varivestis 5818
Helicoverpa zea 4501
insects 1236
Lepidoptera 7532
Leptinotarsa decemlineata 6923
Lophocampa caryae 8920
rearing techniques 1236
soyabeans, fields, Indiana 5818
storage 2521
USA 9331
- Podocarpus latifolius*, *Eriophyes latifolii*, South Africa 9674
- Podosphaera leucotricha*, biological control 2732
- Poecilimon schmidtii*, physiology, songs 6292
- Poecilips fallax* (see *Coccotrypes fallax*)
- Poecilochirus*
Tenebrionidae, phoresy 1171
USSR 1171
- Poecilochirus coimbatorensis*
Catharsius pithecius, interactions 2144
India 2144
taxonomy, new species 2144
- Poecilognathus punctipennis* (see *Phthiria punctipennis*)
- Poecilonota cyanipes*, taxonomy, to *Descarpentriesina* 9149
- Poecilophila hebraea maculatissima*, coffee, South Africa 7886
- Poecilus* (see *Pterostichus*)
- Poecilus cupreus* (see *Pterostichus cupreus*)
- Poecilus lepidus* (see *Pterostichus lepidus*)
- Poecilus versicolor* (see *Pterostichus versicolor*)
- Poecilocerus pictus*
biology, behaviour 11370
physiology
cells 6363
reproductive organs 4293
- Poephila guttata*
insecticides
effects 9098
toxicity 8131
- Pogonomyrmex*, inhibitors, grasses, germination 1230
- Pogonomyrmex barbatus*
biology, behaviour 10397
New Mexico 10397
- Pogonomyrmex californicus*
California 9384
ecology, competition 9384
- Pogonomyrmex montanus*
biology, environmental factors 10393
California 10393
- Pogonomyrmex occidentalis*
ecology, population dynamics 7476, 8326
grasslands, Colorado 8326
pastures, Nebraska 7476
- Pogonomyrmex owyheei*
biology 2413
behaviour 199
Formica obscuripes, interactions 199
Idaho 2413
Wyoming 199
- Pogonomyrmex rugosus*
Arizona 4458, 11946
biology 4458

- Pogonomyrmex rugosus** *cont.*
 biology *cont.*
 behaviour 198
 environmental factors 10393
 California 10393
Erodium texanum, interactions 2430
 food plants 4458
 Nevada 198
 New Mexico 2430
 pathogens 11946
 physiology
 metabolism 205
 water relations 6371
 USA 6371
- Pogonomyrmex salinus**, ectoparasites 7313
- Pogonomyrmex subnitidus**
 biology, environmental factors 10393
 California 10393
- Pogostemon cablin**
 bibliographies 2078
 insecticidal properties 2078
- Poinciana regia**, wood, *Psammotermes hybostoma*, damage 3067
- Poinsettias**
 Aleyrodidae 7893
 German Federal Republic 3965, 7004
Bemisia tabaci
 Bermuda 4976
 Israel 4972
- Poladryas minuta**
 biochemistry, iridoids 9913
Penstemon virgatus, Colorado 9913
- Poland**
Acmaeops angusticollis 10890
Acrolepiopsis assectella, parasitoids 1704
Aculus schlechtendali 3800
 Aleyrodidae 2367
Anthonomus pomorum 8611
Anthonomus rubi 8558
 Aphididae 3399, 3435, 4628
 predators 8466
Apion 4696
Apion apricans, parasitoids 8543
Apion fulvipes 4704, 8545
Apion virens 4703
Apis mellifera, ectoparasites 11474
 Araneae 8294
 black currants, arthropod pests 8561
Callisto 3752
Camponotus 8329
 Carabidae 7780, 9344
 carrots, Hemiptera 4878
Cephalcia fallenii 9994
 Chilopoda 7049
 Coccidae, parasitoids 5068
 Coccoidea 2695
 Collembola 1190
Contarinia medicaginis 2688
 crops, insect pests 5167
Cydia pomonella 8582-8583, 8610
Delia antiqua 6939
Delia radicum 6911
 drinking water, pesticide residues 7214
 Elateridae 2298
 forest trees, insect pests 8880
 forests
 arthropods 8879
 Gastropoda 6615
 insect pests 5067
 insects 7048
 Formicidae 8327
Glycyphagus 7092
Hoplocampa testudinea, natural enemies 4759
 horticultural crops, research, reports 11275
 horticulture, reports 8181
 Hymenoptera 1329
 Ichneumonidae 2440
 insects
 fauna 6465
 pathogens 4149
Ips acuminatus, natural enemies 4037
Kessleria 7442
 Lepidoptera 3431
Leptinotarsa decemlineata 2874, 7214
 predators 4517, 6923
 medicinal plants, insecticide residues 4053
- Poland** *cont.*
Meligethes aeneus 6868
 parasitoids 8672
Myzus persicae 7825
Neodiprion sertifer 7066
 Noctuidae 4408, 6466
Oscinella frit 4649, 6718
Oulema 4629
Pegomya hyoscyami 4875
Picea, insect pests 9997
Picea abies, insects 5986, 9997
Pinus sylvestris, forests, insects 4979
Populus, insect pests 7953
Quercus, forests, insects 7050
 rape
 Coleoptera 2803
 insect pests 7777
 insects 4822
Saperda scalaris 9995
Schizotus pecticornis 5032
Sitobion avenae 2606-2607, 4630
 Sphecidae 2441
 Symphyta 7589
 Tenthredinidae 4038
Tetranychus 6856
 Thysanoptera 8293, 11533-11534
Trialeurodes vaporariorum, parasitoids 7002
 Umbelliferae, Coleoptera 10820
Uroleucon daronici 9919
 vegetables, Hemiptera 6857
Yponomeuta padellus, parasitoids 5069
- Polia latex**
 biology, phenology 5943
 forest trees, West Virginia 5943
 monitoring, traps 5943
 morphology 5943
- Polia oleracea** (see *Lacanobia oleracea*)
- Polistes**
 distribution, Indiana 10451
 food, man 1355
 prey, *Etiella zinckenella* 1527
 taxonomy 10451
- Polistes annularis**
 biochemistry, cuticle 10392
 biology
 behaviour 2487, 6407
 reproduction 8220
 Georgia 10392
 Kansas 2487
 Texas 8220
 venoms, toxicity, *Manduca sexta* 1988
- Polistes antennalis** (see *P. chinensis antennalis*)
- Polistes chinensis antennalis**
 control, Lepidoptera 4805
 vegetables, habitats, China 4805
- Polistes dominulus**
Hemileuca lucina, interactions 3629
 Massachusetts 3629
- Polistes fuscatus**
 biology, behaviour 6409
Hemileuca lucina, interactions 3629
 Massachusetts 3629
- Polistes hebraeus** (see *P. olivaceus*)
- Polistes lanio**
 coffee, plantations, Brazil 9893
 prey, *Perileucoptera coffeella* 9893
- Polistes olivaceus**
 insecticides, effects 6159
 physiology
 haemocytes 11315
 lipids 6159
Vigna radiata, fields, India 4864
- Polistes versicolor**
 coffee, plantations, Brazil 9893
 prey, *Perileucoptera coffeella* 9893
- Pollen**
 angiosperms, insecticides, effects 4200
 food
 Amblyseius barkeri 2494
 Amblyseius victoriensis 220
 Orius sauteri 3532
 predatory mites 4515
 insecticides, detection 5203
 Solanaceae, Thysanoptera, food preferences 1709
- Pollenia rudis**
 hosts, *Phragmatobia fuliginosa* 9888
 tobacco, fields, Italy 9888
- Pollination**
Annona, *Carpophilus hemipterus* 1595
 apples, *Osmia cornifrons* 7733
Aralia hispida, Hymenoptera 6450
Baccharis salicifolia, insects 9506
Borreria hispida, *Haplothrips nigricornis* 2574
 cabbages, Diptera 9772
 carrots, insects 6913
 cocoa, *Forcipomyia* 4948
 crops, *Apis florea* 5438
Cucurbita pepo, insects 8691, 9780
Echium, insects 1380
Encephalartos, Curculionidae 3030
Ficus
 Agaon 10718
 Agaonidae 5743
Ficus burti-davyi, *Elisabethiella baijnathi* 11656
 figs, Hymenoptera 7740
Lavandula latifolia, insects 9507, 11518
 lucerne, *Megachile rotundata* 480, 8539
 oil palms
 Elaeidobius kamerunicus 7712
 insects 1541, 9134
Ophrys, Hymenoptera 6992
Opuntia imbricata, Coleoptera 7554
Peristeranthus hillii, *Metriorhynchus rufipennis* 1766
 plants, insects 6993
Platanthera huronensis, insects 7889
Pteridium aquilinum, Formicidae 11512
Raphanus raphanistrum, insects 1399
Salix, insects 7042
 sapodillas, Thysanoptera 6845
Stachytarpheta mutabilis, insects 8436
Stellaria media, Thysanoptera 1395
 strawberries, insects 2705
 sunflowers, insects 5869
Theobroma, insects 3946
Trollius europaeus, *Chiastocheta* 6665
 vegetables, Calliphoridae 8661
Zamia furfuracea, *Rhopalotria mollis* 5941
Ziziphus mauritiana, *Apis florea* 1571
- Pollinators**, Utah 3492
- Pollution** (see also individual types of pollution)
Drosophila melanogaster, indicator species 163
 effects
 arthropods 8879, 10376
 crops, insects 8412
 Diprionidae 5977
 Diptera 9613
 forest pests 9958
 forests
 Arachnida 4203
 Coleoptera 4040
 insects 5809, 5930, 6225
 invertebrates 4229, 5377
 Neochetina bruchi 4580
 Orchesella cincta 10138
 Petrova resinella 5922-5923
 Pimpla turionellae 4523
 soil invertebrates 10018, 10155
 Sphingidae 1835
 Trichoplusia ni 2820
 insecticides, residues 5635
- Polyaldehyde**, mixtures, control, Acari 1254
- Polybia scutellaris**
 coffee, plantations, Brazil 9893
 prey, *Perileucoptera coffeella* 9893
- Polybia sericea**
 biology, behaviour 6525
 Brazil 6525
 prey, arthropods 6525
- Polychlorinated biphenyls**
 characterization 11143
 residues, water 11208
- Polychrosis botrana** (see *Lobesia botrana*)
- Polychrosis viteana**
 biology 9666
 grapes 8564
 New York 9666, 11623
 insecticides, toxicity 8564
 parasitoids 11623

- Polydidus armatissimus*
biology, phenology 4659
prey, *Nilaparvata lugens* 4659
rice, fields, India 4659
- Polydnaviridae**
hosts
Campoletis sonorensis 4114
Heliothis virescens 4114
- Polydnavirus**
genetics, gene expression 8371
hosts
Campoletis sonorensis 8371
insects 1295
- Polydrusus cervinus**
distribution, Quebec 2989
food plants 2989
- Polydrusus sericeus**, nurseries, Belgium 1876
- Polygodial**, antifeedants, *Pieris brassicae* 2250
- (-)-**Polygodial**, antifeedants, insects 3137
- Polygonaceae**
Entomoscelis orientalis, China 11507
Teleiopsis 2128
- Polygonia c-album**
biology
diapause 2327
reproduction 4368, 6650
Europe 2327
Urtica dioica, Sweden 6650
- Polygonia c-aureum**, physiology, endocrine system 2271
- Polygonia faunus hylas** (see *P. hylas*)
- Polygonia gracilis zephyrus** (see *P. zephyrus*)
- Polygonia hylas**
food plants, Colorado 1548
morphology 1548
- Polygonia prognigrozephyrus**
morphology 1548
Ribes, Colorado 1548
- Polygonia satyrus**
food plants, Colorado 1548
morphology 1548
- Polygonia zephyrus**
California 2151
evolution 2151
morphology 1548
Ribes, Colorado 1548
- Polygonum**, *Gastrophysa atrocyanea*, China 2564
- Polygonum aviculare**
Entomoscelis orientalis, China 11507
Gastroidea polygona, USSR 2575
- Polygonum coccineum**, *Lycaena hyllus*, Minnesota 10520
- Polygonum convolvulus** (see *Fallopia convolvulus*)
- Polygonum hydropiper**
extracts, antifeedants, insects 3137
secondary metabolites, antifeedants 6217
- Polygonum natans**, *Lycaena hyllus*, Minnesota 10520
- Polygraphus nobuchii**
Abietis koreana, Korea Republic 5046
taxonomy, new species 5046
- Polygraphus rufipennis**
forest trees, Manitoba 7055
pathogens 7055, 8844
Picea mariana, Manitoba 8844
- Polymerus**, morphology 5560
- Polymerus castilleja**
Castilleja, USA 5560
taxonomy, new species 5560
- Polynema boreum**
biology, phenology 10439
hosts, *Nabis* 10439
legumes, fields, Kentucky 10439
- Polynema pratensisphaga**
Amaranthus retroflexus, habitats, Quebec 6652
hosts, *Lygus lineolaris* 6652
- Polyommatus icarus**
ecology 6392
UK 6392
- Polypedilum cultellatum**, *Phragmites australis*, Japan 1418
- Polyphaga**
taxonomy, keys 10198
USSR 10198
- Polyphagotarsonemus latus**
aubergines, India 6946
Bemisia tabaci, interactions 6946
biology 1713, 5773, 10725, 10734
Capsicum annuum, India 735
Citrus 10725
Citrus latifolia 10734
control 5773, 8770
acaricides 744, 2928, 6957, 7746, 10752
insecticides 8771
integrated control 1713
pesticides 689
cotton 6946
Brazil 744, 6957, 8770-8771
distribution, maps 6454
food plants, South Africa 7746
greenhouse crops
France 10752
Italy 5773
jute, Pakistan 2928
limes
Cuba 9725
Florida 6841
monitoring, traps 8770
morphology 9725
pheromones 6957
potatoes, India 689
predators 1713, 2494, 6841, 8391
vegetables, Panama 1713
- Polyphylla**
control 9626
lawns and turf, Colorado 9626
- Polyphylla fullo**
fruit trees, Hungary 6776
pathogens 6776
- Polyrhachis**
Australia 5435
Oceania 5434
taxonomy 5434-5435
- Polyrhachis arachne**
bamboos, plantations, Malaysia 9519
Hemiptera, interactions 9519
- Polyrhachis hodgsoni**
bamboos, plantations, Malaysia 9519
Hemiptera, interactions 9519
- Polytrix arrogans**
hosts, *Cerapteryx graminis* 1520
Netherlands 1520
- Polytrin** (see Cypermethrin)
- Polyzonium germanicum**
ecology, population dynamics 10017
forests, France 10017
- Pomacea**
control, molluscicides 454
food plants, Philippines 454
research, Cuba 5532
- Pomacea canaliculata**
biology 449, 1372
control 449
cultural control 10624
predators 8402
rice
Japan 449
Philippines 10624
- Pomacea lineata**
control, molluscicides 453
rice, Taiwan 453
- Pome fruits**
arthropod pests
control, pesticides 11115-11116
Italy 11637
Sicily 11655
Panonychus ulmi, Chile 4732
- Pomegranates** (*Punica granatum*)
Achaea janata 9862
Aphis punicae, Iraq 6844
Deudorix epijarbus, India 3821
Ectomyelois ceratoniae, Iraq 5483, 5756
insect pests
control 3822
India 1591
USSR 3822
orchards
Apanteles, Iraq 5483
Glyptapanteles vitripennis, India 3821
- Pompilidae**
biology 3434, 7261
British Isles, books 7261
- Pompilidae cont.**
German Democratic Republic 3434
morphology 3434, 7261
natural enemies 3434
taxonomy 3434
keys 7261
- Poncirus trifoliata**
Anoplophora malasiaca, Japan 5748
Coccus pseudomagnoliarum, Japan 2756
- Poncirus trifoliata** × *Citrus*, *Phyllocnistis citrella*, resistance 3809
- Ponderosa pine** (see *Pinus ponderosa*)
- Ponds**
insecticides, residues 8133
Microvelia, Japan 10465
water, insecticides 2057
- Ponerinae**
biology 5428
Ghana 11903
pathogens 11903
- Pongamia glabra** (see *P. pinnata*)
- Pongamia pinnata**
extracts
control, *Phthorimaea operculella* 1898
effects, Delphacidae 3700
toxicity, *Callosobruchus chinensis* 1914
oils, toxicity, wheat, commodities, insect pests 5099
- Pontania**
Arizona 7958
ecology
competition 7958
population dynamics 4981
natural enemies 4981
parasitoids 4041
Salix, Europe 4041
Salix lasiolepis
Arizona 4981-4982
galls 7958
- Pontania breviserratae**
Salix breviserrata, Switzerland 4039
taxonomy, new species 4039
- Pontania foetidae**
Salix foetida, Europe 4039
taxonomy, new species 4039
- Pontania herbaceae group**, taxonomy 4039
- Pontania maculosa**
Salix helvetica, Europe 4039
taxonomy, new species 4039
- Pontania pacifica**
Arizona 7958
ecology, competition 7958
Salix lasiolepis, galls 7958
- Pontania polaris group**, taxonomy 4039
- Pontia daplidice**
ecology 1823
distribution 5020
habitats, Spain 1823
morphology 4281
woodlands, Spain 5020
- Pontia occidentalis**
biology, behaviour 4369
Colorado 4369
morphology 4369
- Pontia protodice** (see *Pontieuchloia protodice*)
- Ponticulothrips diospyrosi**
biology, phenology 7423
distribution, Japan 7437
Japan 7423
- Pontieuchloia protodice**
biology, phenology 9327
Mexico 9327
monitoring 9327
- Popillia japonica**
cold resistance 1059
control, insecticides 2714
food plants 11820
grapes, Virginia 2714
Japan 1059
Ohio 2841
pheromones 11309
soybeans, resistance 2841
- Popillia lewisii**
attractants 5772
Japan 5772
monitoring, traps 5772
- Poplar** (see *Populus*)

Populus

- Eulophonotus myrmeleon*, Africa 6456
Heterarthrus ochropodus, Italy 3994
 insect pests
 conferences 11269
 Italy 5966
 Poland 7953
Lymantria dispar 5178, 10953
Paranthrene tabaniformis
 Netherlands 3020, 4430
 USSR 7406
 pest control 11269
Phyllonorycter populifoliella
 China 3992
 USSR 4991, 6014
Plagiodera erythroptera, Argentina 5946
Plagiodera versicolora, food preferences 5031
Saperda calcarata 5939
Sesia apiformis, Italy 4516
Smerinthus kindermanni, USSR 6013
 Tenthredinidae, France 4031

Populus alba

- Gootiella alba*, Sweden 11804
Gypsonoma minutana 3971
Laothoe populi 7039, 8891
Messa hortulana, Poland 4038
Paraleucoptera sinuella, China 5982
Plagiodera versicolora, food preferences 5031

Populus alba × **P. glandulosa**, *Saperda populnea*, Korea Republic 10909**Populus angustifolia**, *Pemphigus*, Utah 4983**Populus balsamifera**

- Clydesmithia canadensis*, Canada 10947
Cryptorhynchus lapathi, resistance 11792
Phyllonorycter populifoliella, USSR 4991

Populus betae, *Pemphigus betae*, Utah 828**Populus betae** × **P. fremontii**, *Pemphigus betae*, Utah 828**Populus canadensis**

- Cryptorhynchus lapathi*, resistance 11792

Populus canadensis

- insect pests, Netherlands 5917
 wood, Isoptera, damage 1794

Populus candicans, *Plagiodera versicolora*, food preferences 5031**Populus ciliata**, *Chaitophorus kapuri*, India 2966**Populus davidiana**, *Gonioctena decemnotata*, China 9941**Populus deltoides**

- biology, behaviour 5929

Populus deltoides

- Cryptorhynchus lapathi*, resistance 11792

Populus deltoides

- Plagiodera versicolora* 5929-5930

Populus deltoides

- Plectrodera scalator*, Kentucky 3984

Populus euramericanus (see *P. canadensis*)**Populus fremontii**

- Hippomelas jeanae*, California 3982

Populus fremontii

- Pemphigus*, Utah 4983

Populus fremontii

- Pemphigus betae*, Utah 828

Populus grandidentata

- extracts, effects, nuclear polyhedrosis viruses 8883

Populus grandidentata

- Lymantria dispar* 8883

Populus maximowiczii, *Pemphigus*, galls 9939**Populus nigra**, Tortricidae 8546**Populus suaveolens**, *Phyllonorycter populifoliella*, USSR 4991**Populus tremula**

- Aradidae, Sweden 4998

Populus tremula

- Ectoedemia argyropeza*, Irish Republic 840

Populus tremula

- Gootiella tremulae*, Sweden 11804

Populus tremula

- Gypsonoma minutana* 3971

Populus tremula

- Laothoe populi*, Finland 1835

Populus tremula

- Plagiodera versicolora*, food preferences 5031

Populus tremuloides

- extracts

Populus tremuloides

- effects

Populus tremuloides

- Choristoneura conflictana* 3027

- nuclear polyhedrosis viruses 8883

Populus tremuloides cont.

- insect pests, interactions 3027
Lymantria dispar 8883
Malacosoma disstria, Ontario 5971
Papilio glaucus 10967
 USA 7952
Sesia spartani, Michigan 14

Populus trichocarpa

- Clydesmithia canadensis*, Canada 10947

Populus trichocarpa

- Rhizophagus galbus*, Canada 9139

Porasilus barbiellinii

- biology, behaviour 5683
 pastures, Brazil 5683

Porcellio scaber

- prey, *Deois flavipicta* 5683

Porcellionidae, Sri Lanka 9367**Porcirus**, *Phyllocoptruta paracitri*, China 5948**Porocentrum micans**, insecticides, degradation 6171**Porotermes adamsoni**

- ecology, population dynamics 11855
 forest trees, South Australia 11855

Porphyrophora hamelii

- Aeluropus littoralis* 2539

Porphyrophora hamelii

- biology, environmental factors 2540

Porphyrophora hamelii

- morphology, reproductive organs 3587

Porphyrophora hamelii

- rearing techniques 2539, 2541

Porphyrophora hamelii

- USSR 2541

Porphyrophora tritici

- biology 391

Porphyrophora tritici

- wheat 391

Porthesia scintillans (see *Euproctis scintillans*)**Porthetes**

- Encephalartos*, pollination 3030

Porthetes

- South Africa 3030

Portinae

- morphology, legs 1049

Portugalia

- phylogeny 1049

Portugalia

- Aphis* 9511

Portugalia

- Cataglyphis iberica* 8328

Portugalia

- Histeridae 7429

Portugalia

- Lepidoptera 8276

Portugalia

- Neuroptera 11394

Portugalia

- Ommatolius*, parasitoids 6521

Portugalia

- peaches, pest control, conferences 5238

Portugalia

- Selenocephalus* 9178

Portugalia

- Tetralicia iberica* 9912

Portugalia

- Theba pisana* 8406

Portulaca oleracea

- Agrotis ipsilon*, India 9828

Portulaca oleracea

- Spodoptera*, Nicaragua 4848

Portulaca oleracea

- Potamogeton crispus*

Portulaca oleracea

- biological control agents, evaluation 4587

Portulaca oleracea

- Hydrellia pakistanae* 4587

Portulaca oleracea

- Potassium chloride*, control, *Ophiomyia phaseoli* 2816

Portulaca oleracea

- Potassium fertilizers*

Portulaca oleracea

- effects

Portulaca oleracea

- Atherigona soccata* 1495

Portulaca oleracea

- Ips calligraphus* 10044

Portulaca oleracea

- Nilaparvata lugens* 11570

Portulaca oleracea

- Spodoptera frugiperda* 8480, 8502

Portulaca oleracea

- mixtures

- effects, *Atherigona soccata* 1495

- nontarget effects, groundnuts, nodulation 8718

- toxicity, *Spilosoma obliqua* 1953

- Potassium oleate*, control, *Frankliniella occidentalis* 7901

- Potassium permanganate*, toxicity, *Deroceras reticulatum* 2551

- Potato leaf roll luteovirus*

- vectors

- Aphididae 699-700, 2871, 5841, 6924, 9833, 10832, 11067

- Myzus persicae* 695, 1682, 7818, 10824-10825

- Potato M carlavirus*, vectors, insects 6914

- Potato S carlavirus*, vectors, insects 6914

- Potato Y potyvirus*

- hosts, *Aphis gossypii* 6918

Potato Y potyvirus cont.

- vectors
 Aphididae 2871, 5841, 6853, 6915, 9831, 10830, 10847, 10852
Myzus 6920
Myzus nicotianae 10873
Myzus persicae 876, 7816
Potato Y^N potyvirus, vectors, *Myzus persicae* 1682
Potato yellow dwarf rhabdovirus, vectors, *Aceratagallia sanguinolenta* 10885
Potatoes (*Solanum tuberosum*)
Aculops lycopersici 6457
Agrotis, India 2865
Agrotis ipsilon
 economic thresholds 1689
 India 9828
 Aphididae 1695, 5841
 Austria 6924
 Cyprus 2871
 German Democratic Republic 8447, 10832
 Hungary 8446
 India 1686, 7815
 Indonesia 699-700
 Minnesota 9833
 Netherlands 1682
 New Brunswick 6915, 10829
 resistance 10831
 Sweden 9831
 Switzerland 10830
 UK 8739
 USSR 702
Aphis, USSR 3903
Aphis gossypii 6918, 7821
 Japan 1374, 7761
 arthropod pests 2115
 Egypt 1683, 2864
 German Democratic Republic 7550
 Italy 11637
 Sicily 11655
 Asia 3416
Astylus, Brazil 3670
 attractants, *Macrocentrus grandii* 5613
Aulacorthum solani, Japan 3905
Bemisia tabaci, Turkey 1736
 commodities
 insect pests, plant extracts, control 5083
 insecticides, residues 4051, 5085
 Phthorimaea operculella 850, 1898, 7971, 8936, 11025
 Tunisia 11744
Deroceras reticulatum
 resistance 706
 UK 358
 Diplopoda, India 2855
 Elateridae, Irish Republic 9138
Empoasca decipiens, damage 692
Empoasca fabae
 Minnesota 11684
 resistance 694
Epilachna, Indonesia 2553
Epilachna ocellata, India 2872
Epilachna vigintioctomaculata
 China 5845
 Korea Republic 3914
Epilachna vigintioctopunctata 5846
Epitrix cucumeris, Prince Edward Island 6921
 fields
 Aphidius colemani, India 2866
 beneficial insects, India 1687
 Carabidae
 UK 695
 USSR 696
 Coccinellidae, USSR 3903
 Copidosoma koehleri, South Africa 2868
 Edovum puttleri
 Canada 4886
 Maryland 3901, 4880
 Massachusetts 6925
 New York 8736
 Hymenoptera, Korea Republic 3914
 Opiliones, UK 8739
 parasitoids 10826
 Phalangium opilio, Michigan 10828
 predatory insects
 Brazil 9827
 Egypt 7817

Potatoes cont.

fields cont.

predatory insects cont.

USSR 1696

soil arthropods, Netherlands 1694

genetics, genetic engineering 1980

habitats, *Diaeretiella rapae* 6573

Hemiptera, USSR 1696

insect pests

Brazil 9827

control, cultural control 10824

Cyprus 10824

Egypt 7817

German Democratic Republic 3906

India 5848

Manitoba 8737

Mauritius 11278

natural enemies 1687

USSR 5850

yield losses 1689

insecticides

effects 1681

metabolism 6919

residues 3442, 4210, 5847, 7822,

11742

Keiferia lycopersicella 4900

Lepidoptera, varietal susceptibility

2867

Leptinotarsa decemlineata 690, 3902,

7823, 8742, 8745, 8747, 8755,

9107

Canada 4886

Colorado 7824, 9829

Czechoslovakia 6928

damage 9835, 10833

German Democratic Republic 2386

Hungary 4881, 8738

Iran 9830

Maryland 3901, 4880, 8740

Massachusetts 4884, 6925-6927

Michigan 10828

New Jersey 4883, 7833, 7839

New York 2873

Poland 2874, 5167, 6923

resistance 688, 1690, 1693, 5843,

7551, 8736, 10822

USSR 696, 701, 4210, 5849

Virginia 4885, 8746, 10827

yield losses 4887, 6929

Macrosiphum euphorbiae 261, 7820*Manduca sexta* 2210*Myzus*, New Brunswick 6920*Myzus persicae* 7816, 7818

India 1691, 2866, 3908, 8743

Poland 7825

resistance 6917

UK 695

varietal susceptibility 1692, 10825

pest control 1583, 5581, 5850

German Federal Republic 7260

New York 8146

Sudan 6625

USSR 703, 2862

books 12025

pest resistance 5844

effects, *Edovum puttleri* 8736*Phthorimaea operculella* 1680, 9826

Africa 8741

damage 9832, 11744

India 693, 1688, 2869, 8744

Indonesia 11741

Iraq 697

South Africa 2868

USSR 1679, 2721, 2863, 6916

varietal susceptibility 3904, 3907

Victoria 10826

Planococcus citri 9834*Polyphagotarsonemus latus*, India 689*Psallus seriatus* 7863*Psylliodes plana*, India 3900

research, India, reports 2115

Scarabaeidae, India 11743

Scrobipalopsis solanivora, Venezuela

691

slugs, damage 704-705

viruses

vectors

Aphididae 702

Aphis 3903

insects 6914

Potentilla fruticosa, Lepidoptera 785

Potyvirus group, vectors, Hemiptera 11062

Poultry droppings

Coleoptera 10248

effects, *Spodoptera frugiperda* 8502habitats, *Uropoda* 10248**Poultry housing**, *Alphitobius diaperinus*,

damage 7467

Poxviridae, hosts, *Anastrepha suspensa*

11329

PP-321 (see Lambda-cyhalothrin)

PP-789 (see Bifenthrin)

Praeurocerus axilloseparatus, taxonomy,synonyms, of *Praeurocerus viridis*

2459

Praeurocerus frontolatus, taxonomy, syno-nyms, of *Praeurocerus viridis* 2459*Praeurocerus viridis*

taxonomy

synonyms

Praeurocerus axilloseparatus

2459

Praeurocerus frontolatus 2459**Praon**

hosts, Aphididae 2137, 3573

India 3573

Israel 1760

morphology 2137

taxonomy 1760, 2137

Praon gallicum

Chile 6109

control, Aphididae 6109

hosts, Aphididae 6109

Praon himalayensishosts, *Callaphis juglandis* 10686

taxonomy, new species 10686

walnuts, orchards, India 10686

Praon pequodorum

biology 6566

hosts

Acyrtosiphon 11463*Acyrtosiphon pisum* 6566***Praon unitum***

hosts, Aphididae 1760

taxonomy, new species 1760

Praon volucre

Chile 6109

control, Aphididae 6109

detection 10561

hosts

Aphididae 6109

Sitobion avenae 10561, 11440

identification, electrophoresis 11440

wheat, fields, UK 10561

Pratylenchus, biological control agents,

evaluation 6108

Praxibulus

genetics, karyotypes 3468

morphology 3468

parasitoids 3468

taxonomy 3468

Prays citri

biology 4791

Citrus, Italy 2765

control 9723

lemons

Israel 9723

Spain 4791

monitoring, traps 2765

pheromones 9723

rearing techniques 4791

Prays oleae

biology 3820

control 3820

insecticides 8651

ecology, population dynamics 579

monitoring, traps 579

olives 3820, 8650

Italy 8651

Spain 579

Prays ruficeps

distribution, Czechoslovakia 5385

Fraxinus 5385***Precis coenia*** (see *Junonia coenia*)**Precocene I**analogues, effects, *Caenorhabditis**remanei* 6212

derivatives, effects, invertebrates 11130

effects, *Caenorhabditis remanei* 6212**Precocene II**analogues, effects, *Caenorhabditis**remanei* 6212**Precocene II cont.**

effects

Caenorhabditis remanei 6212*Lipaphis erysimi* 5332*Nezara viridula* 4172*Nilaparvata lugens* 7230*Pyrilla perpusilla* 360*Spodoptera mauritia* 5219**Precocene III**

effects

Aiolopus thalassinus 2277*Locusta migratoria* 2407**Predation**, responses, reviews 6578**Predator prey relationships**

ecology 4462

models 236

functional responses, analysis 3550

models 2436-2437, 4474, 5481, 7452,

7533-7535

Predators

biology, behaviour, models 6534

data banks, catalogues 4237

ecology 4462

population dynamics 5481

forests, USSR 3043

insect pests, interactions 7412

prey

immunoassay 4501

interactions 3540, 7452, 7533-7535

Predatory arthropods

apples

orchards

Hungary 8594

India 8601

Indiana 4746

barley, fields, Sweden 8472

biology 1304

behaviour 6588

overwintering 8444, 8472

cereals, fields, UK 3516, 8444

conservation 3701

cotton

fields

Mississippi 1734

Texas 4925

data banks, catalogues 4237

ecology, population dynamics 4681

field crops, habitats, German Federal

Republic 7260

fields

Netherlands 6526

Spain 9440

forests, Connecticut 5043

insecticides, effects 4860

Italy 2554

Larrea tridentata, habitats, New Mex-

ico 10523

maize, fields, Texas 9566

meadows, German Federal Republic

4681

monitoring, traps 4681, 6526, 9393

North Carolina 2601

pears, orchards, Belgium 560

pesticides

effects 6526

nontarget effects 9035

prey

detection 3516

immunoassay 4501

rearing techniques 6229

release techniques 6229

rice

fields

India 4659

Philippines 3701

roadside plants, habitats, Mississippi

9502

Texas 9393

vineyards, Austria 6792

wheat, fields, UK 8470

Predatory insects*Baccharis halimifolia*, interactions

1391

cabbages, fields, USSR 607

catalogues 5235

forests, Poland 4037

habitats 8163

herbicides, effects 2599

Indian mustard, fields, India 8685

insecticides, effects 9715

mangoes, orchards, India 11680

Predatory insects cont.

- prey
 - Antheraea mylitta* 10958
 - Aphididae 7267
 - soybeans, fields, Florida 4862
 - sugarcane, plantations, Louisiana 6683
 - taxonomy, keys 7267
 - UK 7267
 - vegetation, effects, reviews 9434
 - wheat
 - fields
 - Romania 9540
 - USSR 3661

Predatory mites

- apples
 - orchards
 - Hungary 8595
 - Israel 4747
 - Massachusetts 10704
 - Ontario 4750
 - body weight, models 8345
 - carotenoids, effects 4515
 - control
 - Tetranychidae 664
 - evaluation 11745
 - Tetranychus cinnabarinus* 10847
 - ecology, distribution 8486
 - Egypt 10747
 - food 4515
 - forests, Poland 4037
 - greenhouses, France 10752
 - groundnuts, fields 664
 - limes, orchards, Florida 6841
 - maize, fields, Hungary 8486
 - orchards, Austria 2741, 6780
 - pesticides, effects 4747, 9746
 - plums, orchards, Pakistan 11652
 - prey, *Quadraspidiotus perniciosus* 11652
 - South Africa 161
 - Spain 4569
 - spinach, fields, Italy 9746
 - tea, plantations, India 5902

Prenolepis imparis

- biology, behaviour 7047
- woodlands, Maryland 7047

Prepops cruciferus

- distribution, USA 6468
- host plants 6468
- taxonomy 6468

Prey, predators, interactions 7452, 7533-7535

Prickly chaff (see *Achyranthes aspera*)

Prioninae, Taiwan 4395

Prionosoma podopioides

- distribution, South Carolina 2561
- Plantago aristata* 2561

Prionoxystus robiniae

- pathogens 1853
- rearing techniques 5003

Prionyx thomae

- distribution, Chile 1340
- taxonomy 1340

Priscapalpus

- distribution, India 6778
- taxonomy 6778

Priscapalpus piarai

- food plants, India 6778
- taxonomy, new species 6778

Pristiphora abietina

- control
 - growth regulators 8911
 - insecticides 10989
 - pathogens 1826, 4045
- Picea*
 - Austria 10989
 - German Federal Republic 8911

***Pristiphora erichsonii*, forest trees, Canada 7063**

***Pristiphora ezomatsuvora*, *Pristiphora harai*, differentiation 10009**

Pristiphora geniculata

- biochemistry, defensive secretions 8871
- Sorbus*, New York 8871

Pristiphora harai

- Picea glehnii*, Japan 10009
- Pristiphora ezomatsuvora*, differentiation 10009
- taxonomy, new species 10009

Pristiphora pallipes

- biology, behaviour 3763

***Pristiphora pallipes* cont.**

- gooseberries 3763
- Pristiphora robusta*, *Picea abies*, Sweden 4997
- Pristiphora rufipes*, currants, Finland 9486
- Pristomerus*
 - Citrus*, orchards, India 11660
 - hosts
 - Lepidoptera 1508
 - Psorosticha zizyphi* 11660
 - sorghum, fields, South Africa 1508
- Pristomyrmex pungens*
 - biology, behaviour 2420
 - Japan 2420
- Pristophora pallipes* (see *P. rufipes*)
- Pritchardia*, *Megastriozia*, Hawaii 2698
- Proacrias coffeae*
 - coffee, plantations, Brazil 9893
 - hosts, *Perileucoptera coffeella* 9893
- Procalvolia aviophilus*
 - Pica pica*, nests, USSR 5455
 - taxonomy, new species 5455
- Procalvolia coccinella*
 - hosts, *Coccinella* 5455
 - taxonomy, new species 5455
 - USSR 5455
- Procalvolia hamadi*
 - Egypt 5455
 - hosts, *Labidura riparia* 5455
 - taxonomy, new species 5455
- Procalvolia zacheri*, taxonomy 5455
- Procedochares utilis*
 - control, *Eupatorium trapezoideum* 3620
 - rearing techniques 3620
- Proceras sacchariphagus sacchariphagus* (see *Chilo sacchariphagus sacchariphagus*)
- Procheiloneurus*
 - hosts, *Trachymela tincticollis* 3021
 - Western Australia 3021
- Prochloraz*
 - effects, *Beauveria bassiana* 5110
 - mixtures, nontarget effects, wheat, arthropods 2038
- Prociphilus*
 - Lonicera quinquelocularis*, India 5012
 - parasitoids 5012
- Prococcophagus*, taxonomy 240
- Proctolaelaps pruni*
 - plums, orchards, German Democratic Republic 4765
 - Scolytus mali*, interactions 4765
 - taxonomy, new species 4765
- Proctotrupoidea*
 - bibliographies 7248
 - evolution 4280
 - morphology 4280
- Prodenia litura* (see *Spodoptera litura*)
- Prodiplosis longifila*
 - biology 6840
 - limes, Florida 6840
 - morphology 6840
- Prodiplosis platani*
 - Araneae, interactions 1868
 - biology 1868
 - natural enemies 1868
 - Platanus occidentalis*, Maryland 1868
- Prodoxus marginatus*
 - parasitoids 1287
 - Yucca whipplei* 1287
- Proeulia chrysoteris*
 - control, insecticides 4769
 - kiwifruits, Chile 4769
- Profenofos (*O*-(4-bromo-2-chlorophenyl) *O*-ethyl *S*-propyl phosphorothioate)**
 - control
 - Cornitermes cumulans* 3464
 - Euprosteria elaeisa* 1543
 - Leptopharsa gibbicarina* 1543
 - Noctuidae 6981
 - Polyphagotarsonemus latus* 6957
 - Spodoptera litura* 8789
 - Stenomima impressella* 1543
 - Thrips palmi* 10751
 - effects, cotton 10856, 10858
 - mixtures, toxicity, *Heliothis virescens* 2921
 - nontarget effects, man 9081
 - resistance
 - Heliothis virescens* 2915

Profenofos cont.

- resistance cont.
 - Spodoptera littoralis* 3207-3208
- synergism 2921, 11159
- toxicity
 - Heliothis virescens* 2921, 11976
 - Noctuidae 2914
 - Spodoptera littoralis* 11159
- Proisotoma minuta***
 - biological control agents, interactions 9020
 - control, *Rhizoctonia solani*, evaluation 1925, 9020
- Prokelisia***
 - morphology 11285
 - taxonomy 11285
- Prokelisia marginata***
 - morphology 11285
 - parasitoids 6538
 - Spartina alterniflora*, Florida 6538
 - taxonomy 11285
- Prolatus aciculata***
 - forests, India 1862
 - hosts, *Sinoxylon anale* 1862
- Proline**, kairomones, *Ascogaster reticulata* 234
- L(-)-Proline**, mixtures, attractants, *Papilio protenor* 7750
- Promecarb** (3-methyl-5-(1-methylethyl) phenyl methylcarbamate)
 - penetration, *Rhizoglyphus echinopus* 4895
- Promecotheca reichei***
 - parasitoids 2497
 - tropics 2497
- Promet** (see Furathiocarb)
- Pronematus rapidus***
 - biology 1331
 - USSR 1331
- Propamocarb**, effects, *Beauveria bassiana* 5110
- 1-Propanol**, attractants, *Delia antiqua* 5855
- Propaphos** (4-(methylthio)phenyl dipropyl phosphate)
 - control, rice, insect pests 10628
- Propargite** (2-[4-(1,1-dimethylethyl)phenoxy]cyclohexyl 2-propynyl sulfite)
 - control
 - Dolichotetranychus floridanus* 8657
 - Panonychus ulmi* 11642
 - Tetranychidae 11643
 - Tetranychus urticae* 4713, 6995
 - effects
 - Amblyseius victoriensis* 8632
 - Apis mellifera* 3585
 - mixtures
 - control
 - cotton, mites 8771
 - Phyllocoptruta oleivora* 9720
 - Tetranychus urticae* 8770
 - resistance
 - Tetranychus* 4935, 11162
 - Tetranychus pacificus* 2719
 - Tetranychus urticae* 3161
- Propiconazole**, mixtures, nontarget effects, wheat, arthropods 2038
- Propineb**
 - effects, *Episyrphus balteatus* 2480
 - nontarget effects, *Kampimodromus aberrans* 5715
- Propionic acid**, repellents, *Tenebrio molitor* 7379
- Propomacrus bimucronatus***
 - distribution
 - Europe 7440
 - Middle East 7440
- Propoxur** (2-(1-methylethoxy)phenyl methylcarbamate)
 - control, *Psammotermes hybostoma* 3068
 - detection 3442
 - effects, rats 2043
 - metabolism, mites 10437
 - mixtures
 - residues, soil 2058
 - toxicity, *Leptinotarsa decemlineata* 3174
 - nontarget effects
 - Apis mellifera* 11199
 - rodents 8101

- Propoxur** *cont.*
residues
foods 10224
plants 3442
sorption, soil 2004
synergism 3174
toxicity
fishes 6174
Rhynchophorus cruentatus 9911
- Propyl hexanoate**, mixtures, attractants,
Rhagoletis pomonella 8626
- Propyl propanethiosulfinate**, attractants,
Lepidoptera 721
- Propyl propionate**, attractants, *Glischrochilus quadrisignatus* 5725
- Propylea japonica**
biology 5487
phenology 4498
China 4498
diets 5487
lucerne, fields, Japan 9632
prey, Aphididae 5487
- Propylea quattuordecimpunctata**
cereals, fields, Poland 8466
German Federal Republic 1432
insecticides, effects 1432
parasitoids 6530
prey, Aphididae 1432-1433, 2617, 8466
wheat, fields, German Federal Republic 1433, 2617
- Prorehinotermes flavus**
Malaysia 8230
physiology, secretions 8230
- Propops nasuta**
control, *Hypothenemus hampei*, reviews 6987
races 6987
- Prosobranchia**
books 11257
taxonomy 11257
UK 11257
- Prosopis**, *Tyndaris robusta*, Mexico 2988
- Prosopis cineraria**
commodities, *Caryedon serratus*, India 10049
forests, Hymenoptera, India 5004
Homoeocerus prominulus, India 5004
- Prosopis flexuosa**, litter (plant),
Pedrocortesella montis, Argentina 11833
- Prosopis juliflora**
Anacridium rubrispinum, India 5052
extracts, effects, *Oxycarenus hyalinipennis* 11520
Oxycarenus hyalinipennis 11520
- Prosopis spicigera** (see *P. cineraria*)
- Prosopis tamarugo**, *Cryptophlebia saileri*, Chile 1038
- Prospaltella agarwali**, taxonomy, synonyms, of *Encarsia udaipuriensis* 3498
- Prospaltella citri**, taxonomy, synonyms, of *Encarsia udaipuriensis* 3498
- Prospaltella flava**, taxonomy, synonyms, of *Encarsia transvena* 3498
- Prospaltella forbesi**, taxonomy, to *Coccophagoides* 2460
- Prospaltella indica**, taxonomy, to *Encarsia* 3498
- Prospaltella koebelei**, taxonomy, to *Encarsia* 2460
- Prospaltella perniciosi** (see *Encarsia perniciosi*)
- Prospaltella pulchellus**, taxonomy, to *Coccophagoides* 2460
- Prostephanus truncatus**
biology 3055
cereal grains 858
control, insecticides 3055
distribution
Africa 1907
India 858
insecticides, toxicity 10030
maize
commodities 10030
Africa 3055
Togo 3054
Tanzania 6715
monitoring, traps 6715
pheromones 6715
predators 6028
- Prostigmata**
biology 5029
earthworms, interactions 8538
habitats, Pennsylvania 8538
Nothofagus pumilio, forests, Chile 5029
pesticides, effects 1731
prey, Nematoda 10639
soil
Colorado 10639
Egypt 1731
Georgia 10353
New Mexico 9323
tillage, effects 10353
- Protaetia fusca**
avocados, Queensland 11659
biology, development 11659
morphology 11659
- Protaetia ishigakia okinawana**
attractants 5772
Japan 5772
monitoring, traps 5772
- Protea**, *Capys*, South Africa 2943
- Protein hydrolasates**
attractants
Anastrepha 9732
Ceratitis capitata 9695, 9698
- Protein kinase**, production, *Spodoptera frugiperda*, cell lines 11109
- Protein solubilizing agents**, synergism 10084
- Proteopteryx laracana**, taxonomy, synonyms, of *Epinotia celtisana* 2143
- Proteus mirabilis**, hosts, *Galleria mellonella* 3107
- Prothiofos** (*O*-(2,4-dichlorophenyl) *O*-ethyl *S*-propyl phosphorodithioate)
effects, *Beauveria bassiana* 5110
residues
Capsicum annuum 5866
tea 770
resistance
Plutella xylostella 10106
Rhizoglyphus robini 11748
- Prothoracicotropic hormones**
Bombyx mori 2180, 4556, 9468, 10313
Galleria mellonella 11970
Locusta migratoria 1121
Manduca sexta 9255
Mythimna separata 5303
Scirpophaga incertulas 11177
- Protogamasellus minutus**
biology 1521
lawns and turf, Egypt 1521
prey, invertebrates 1521
- Protonectarina sylveirae**
coffee, plantations, Brazil 9893
prey, *Perileucoptera coffeella* 9893
- Protopaussinae**
books 8168
taxonomy 8168
- Protozoa** (see also Entomopathogenic protozoa)
insecticides, effects 2046, 4187, 10123
Isoptera, interactions 9464
Odontotermes formosanus, interactions 5517
- Protura**
morphology
eggs 1045
reproductive organs 6286
- Prunus**
Anthonomus consors, North America 8201
Anthonomus quadrigibbus, North America 8201
Lepidoptera 785
Rhagoletis pomonella 6460
- Prunus americana**, *Eriophyes emarginatae*, galls 8877
- Prunus amygdalus** (see Almonds)
- Prunus angustifolia**, fruits, *Rhyzopertha dominica* 11874
- Prunus armeniaca** (see Apricots)
- Prunus avium** (see Cherries)
- Prunus cerasus**
Coccoidea, Europe 2695
insect pests, damage 11653
Myzus cerasi 2126
Rhagoletis pomonella, Utah 4733, 7738
- Prunus cistena**, *Polydrusus cervinus*, Quebec 2989
- Prunus cornuta**
Eumyzus pruni, India 7706
Vesiculaphis pruni, India 3746
- Prunus domestica** (see Plums)
- Prunus padus**
Callisto insperatella, Poland 3752
Gonioctena pallida, UK 826
Rhopalosiphum padi 841
Europe 5594
UK 10959
- Prunus persica** (see Peaches)
- Prunus persica var. nectarina** (see Nectarines)
- Prunus pseudocerasus**, *Actias selene*, Taiwan 4002
- Prunus saliciana**, *Strymonidia iyonis*, Japan 2957
- Prunus salicina**
Aphididae, China 749
Cydia dimorpha, Japan 3802
- Prunus serotina**
Automeris zephyria, New Mexico 10983
insect pests 1808
Odontota dorsalis, damage 10985
Papilio 10968
Papilio alexiades, Mexico 10896
Papilio glaucus 10967
Polia latex, West Virginia 5943
- Prunus spinosa**, *Phorodon humuli*, German Federal Republic 6673
- Psacotha hilaris**
biology, behaviour 7729
control, insecticides 9678
mulberries
China 9678
Japan 7729
- Psallus assimilis**
Acer campestre 4042
distribution, France 4042
- Psallus lepidus**, *Fraxinus*, Massachusetts 11808
- Psallus pseudoplatani**, distribution, France 4042
- Psallus seriatus**
biology, diapause 7863
control 5890
cotton 3938
Texas 4925, 5890, 9873
Croton capitatus, Texas 7863
ecology, population dynamics, models 5890
forecasting 3938
natural enemies 5890
parasitoids 208
predators 4925
rearing techniques 7863
- Psalydolytta fusca**
biology, phenology 3720
monitoring, traps 3720
West Africa 3720
- Psalydolytta vestita**
biology, phenology 3720
monitoring, traps 3720
West Africa 3720
- Psammodes striatus**, physiology, respiration 9246
- Psammodiini**
Korea Republic 9169
taxonomy 9169
- Psammotermes hybostoma**
biology, behaviour 3069
control, insecticides 3068
dwellings, Egypt 3068
Egypt 281, 3069
insects, interactions 281
Pinus, wood 3069
predators 280
wood, Egypt 3067
- Psammotettix alienus** (see *P. striatus*)
- Psammotettix cephalotes**
apples, orchards, German Federal Republic 3785
Catharanthus roseus 3785
ecology, population dynamics 9611
grasslands, UK 9611
- Psammotettix striatus**
plant pathogens, transmission 6702, 10566

Psammotettix striatus cont.
wheat, Hungary 10566

Pselaphidae
ecology 5952
forest litter, Japan 5952
Oklahoma 10231
soil, Italy 2983
taxonomy 10231

Psenulus pallipes
ecology 1329
urban areas, Poland 1329

Pseudacanthotermes
food plants
Kenya 5513
Nigeria 5508

Pseudaletia separata (see *Mythimna separata*)

Pseudaletia sequax (see *Mythimna sequax*)

Pseudaletia unipuncta (see *Mythimna unipuncta*)

Pseudanaphothrips araucariae
Araucaria bidwillii, Queensland 9991
Araucaria heterophylla, Hawaii 9991
taxonomy, new species 9991

Pseudanaphothrips casuarinae
Casuarina, Australia 9991
taxonomy, new species 9991

Pseudanthonomus helvolus, *Hamamelis*, Missouri 3958

Pseudarbelidae, phylogeny 5

Pseudaspidoprocitus vayssieriellus, coco-nuts, Nigeria 2700

Pseudatomoscelis seriatus (see *Psallus seriatus*)

Pseudaulacaspis pentagona
control
biological control 581, 6112
integrated control 8628
distribution, maps 6458
ecology, population dynamics 581
Florida 11431
France 8627
fruit trees 6458
Iran 6112
monitoring, traps 8627
natural enemies 2751
parasitoids 10736, 11431
passion fruits 10736
Western Samoa 581
peaches
Florida 8627
Italy 2751, 8628
pheromones 8627
predators 10452

Pseuderemisca, ecology 4271

Pseudexentera mali
apples, Nova Scotia 10701
control, insecticides 10701

Pseudocercospora herpotrichoides, insecticides, effects 11206

Pseudocneorhinus, morphology 1044

Pseudococcidae
bamboos, Malaysia 9519
control
biological control 9024
reviews 906
Formicidae, interactions 3828
natural enemies 906, 3828
New Zealand 2124
parasitoids 2124, 3509, 3515
pineapples, Hawaii 3828
plant pathogens, transmission 11902
Polyrhachis, interactions 9519
South Africa 3509
taxonomy 2136
tobacco, Zimbabwe 3944

Pseudococcus
coconuts, India 6783
Romania 7311
taxonomy 7311

Pseudococcus bromeliae auct. (see *Dysmicoccus brevipes*)

Pseudococcus calceolariae
control, biological control 3129
Italy 3129

Pseudococcus calceolariae var. *minor*, taxonomy, to *Planococcus minor* 16

Pseudococcus comstocki
cultural methods, effects 8619
distribution, maps 6460

Pseudococcus comstocki cont.
food plants 6460
fruits, USSR 529
monitoring, traps 529
pheromones 529
Pyrus pyrifolia 8619

Pseudococcus deceptor, taxonomy, syno-nyms, of *Planococcus lilacinus* 16

Pseudococcus filamentosus (see *Nipaecoccus filamentosus*)

Pseudococcus longispinus
Castanosperrum australe 10976
ornamental plants, Egypt 776
physiology, excretion 10976
predators 10452

Pseudococcus lounsburyi, taxonomy, syno-nyms, of *Vryburgia amaryllidis* 11788

Pseudococcus peregrinus, taxonomy, syno-nyms, of *Vryburgia amaryllidis* 11788

Pseudococcus virgatus (see *Ferrisia virgata*)

Pseudodendrothrips mori
morphology, nymphs 6807
mulberries 6807
taxonomy 6807

Pseudodicrogeniini, taxonomy, synonyms, of *Euurobraconini* 268

Pseudodineura fuscula
distribution, UK 3987
forest trees 3987

Pseudodiplogasteroides, *Mastotermes darwiniensis*, interactions 10482

Pseudogaurax signatus
morphology, larvae 3258
prey, arthropods 3258

Pseudogibulella formicarum, hosts, *Ponerinae* 11903

Pseudogonatopus
hosts, Delphacidae 10626
rice, fields, India 10626

Pseudogonatopus flavifemur, research, con-ferences 10214

Pseudogonatopus hospes
hosts, Delphacidae 10626
rice, fields, India 10626

Pseudogonatopus pusanus
hosts, Delphacidae 10626
rice, fields, India 10626

Pseudogonia rufifrons
biology 258
growth 254
hosts
Galleria mellonella 254, 258
Phragmatobia fuliginosa 9888
tobacco, fields, Italy 9888

Pseudohypatopa longicornutella
Pinus densiflora, Korea Republic 5047
taxonomy, new species 5047

Pseudoleucania bilitura
control 8663
globe artichokes, Chile 8663

Pseudomonas
Holotrichia serrata, symbiosis 9817
hosts, *Cossus cadambae* 1799
insecticides, degradation 11216
vectors, insect pests 11900

Pseudomonas aeruginosa
hosts
Galleria mellonella 3107
Manduca sexta 5474

Pseudomonas fluorescens
genetics, genetic engineering 4105
mixtures, control, Lepidoptera 8029

Pseudomonas paucimobilis, insecticides, degradation 4206, 12005

Pseudomonas solanacearum, Diptera, inter-actions 346

Pseudomyrmex dendroicus
biology, behaviour 8859
forest trees, Peru 8859

Pseudopachymerina spinipes
Acacia caven, Chile 798
physiology, energy consumption 798

Pseudoperichaeta insidiosa (see *P. nigrolineata*)

Pseudoperichaeta nigrolineata
hosts, *Omiodes indicata* 1659
soyabeans, fields, China 1659

Pseudophilippia quaintancii
biology, phenology 7936
Pinus taeda, Georgia 7936

Pseudoplusia includens (see *Chrysodeixis includens*)

Pseudopsocus rostocki, *Juniperus com-munis*, Spain 8830

Pseudoscorpiones
biogeography 11385
biology 4226
evolution 6275
Italy 11385
Morocco 11281
morphology 4226, 6275
prey, Nematoda 10639
soil, Colorado 10639
taxonomy 4226, 11281
UK 4226
urban areas, Italy 2351

Pseudoscymnus kurohime
biology, behaviour 1426
hosts, *Ceratovacuna lanigera* 1426

Pseudosinella arretzi
ecology 4987
forests, Spain 4987

Pseudotheraptus devastans
cassava 1702
plant pathogens, transmission 1702

Pseudotheraptus wayi, fruits, South Africa 10714

Pseudothinobatis rufinasus
control 2625
maize, Ecuador 2625

Pseudothyssanoes phoradendri, *Phoraden-dron serotinum*, Florida 9962

Pseudotsuga, Adelgidae 9987

Pseudotsuga menziesii
arthropods, Oregon 1865
Barbara colfaxiana, British Columbia 6001, 10008
Choristoneura occidentalis 3002
Arizona 1773
British Columbia 8863
damage 1772, 6004
Idaho 6004
Montana 1791
Chrysoteuchia topiaria, British Colum-bia 9658
Coleoptera 10923
Dendroctonus pseudotsugae, British Columbia 3004
Elatobium abietinum 6455
forests, Araneae, North America 4025
Graellsia isabellae 1827
Haematoloma dorsatum, damage 5968
Hylastes pales, varietal susceptibility 10922
Hylobius abietis 8825
France 8820
insect pests
British Columbia 5998, 6003
California 2999, 6007
damage 5994, 10919
resistance 4021
insects, Romania 6002
Lygus hesperus, damage 1776
wood, *Reticulitermes hesperus*, Califor-nia 4077

Pseudotsuga menziesii var. *glauca*, *Dichelonyx vicina*, Montana 2949

Pseudovigna argentea, *Amblyseius msabahaensis*, Kenya 1833

Pseudoxenetes regalis
biology, phenology 2956
morphology 2956
Quercus alba, Missouri 2956

Psidium, *Lonchophorellus callosus* 8653

Psidium cattleianum
Bactrocera dorsalis, Hawaii 11615
Lonchophorellus scylla, South America 8653

Psidium guajava (see *Guavas*)

Psila rosae
biology
behaviour 4808
diapause 8734
environmental factors 4879
carrots 1598
Finland 4877
Irish Republic 686
Netherlands 3899, 5840, 8735

- Psila rosae* cont.**
carrots cont.
 Ontario 8734
 resistance 687, 10823
 Switzerland 3894, 4879
 UK 10819
control 4877
 insecticides 4870, 5840, 8735
 integrated control 3899
 physical control 1598, 3894
crops
 Finland 9486
 Netherlands 4870
 monitoring 4879
 traps 4808, 10819
 vegetables, UK 4808
- Psithyrus***
 parasitoids 9395
 Switzerland 9395
- Psocoptera***
biology 1896
control 1896
distribution
 Bermuda 8290
 Sweden 6453
 forests, Panama 5042
 North America 9162
 stored products 1896
 stored products pests, interactions 1902
 taxonomy 8290, 9162
- Psophocarpus tetragonolobus***, commodities, diets, *Helicoverpa armigera* 9360
- Psoralea***, toxicity, *Unaspis yanonensis* 7169
- Psorocampa denticulata***
Eucalyptus, plantations, Brazil 2971
 parasitoids 2971
- Psorodonotus illyricus***
biology, behaviour 461
 grasslands, Europe 461
 songs 461
- Psorosticha zizyphi***
biology 1584, 2771
 life tables 2770
 phenology 7753
Citrus, India 1584, 11660
Citrus jambhiri, India 2770-2771, 7753
 Formicidae, interactions 1584
 parasitoids 1584, 7753, 11660
- Psychidae***
 oil palms, Malaysia 7713
 parasitoids 3502
 phylogeny 5
- Psychodidae***, control, insecticides 7713
- Psychophagus omnivorus***
biology 4538
 hosts, Lepidoptera 4538
 USSR 4538
- Psychopsidae***
 Australia 3
 Oriental Region 3
 taxonomy 3
- Psychopsis***, taxonomy 3
- Psychotria capensis***, *Afromerus rubisinus*, South Africa 11829
- Psylla cordata***
Alnus cordata, Italy 11802
biology 11802
 natural enemies 11802
- Psylla emeljanovi***
Acer semenovi, USSR 5075
 taxonomy, new species 5075
- Psylla mali*** (see *Cacopsylla mali*)
- Psylla pyri*** (see *Cacopsylla pyri*)
- Psylla pyricola*** (see *Cacopsylla pyricola*)
- Psyllaephagus***
 hosts, *Cyampophila dicora* 2529
 Iran 2529
- Psyllaephagus yaseeni***
 hosts, *Heteropsylla cubana* 7045
 taxonomy, new species 7045
 tropics 7045
- Psyllidae***
ecology 10240
 fruit trees, USSR 4728
 morphology 10240
 Panama 10240
 parasitoids 4728
 pears, Switzerland 4762
 predators 1182, 4762
 taxonomy 10240
- Psyllinea***, physiology, enzymes 1060
- Psylliodes chrysocephala***
 control, insecticides 2803, 3850
 rape
 German Federal Republic 5784
 Poland 2803, 7777
 Sweden 3850
 UK 4820
- Psylliodes plana***
 control, insecticides 3900
 potatoes, India 3900
- Psyllobora cincta***, *Oidium lini*, India 6953
- Psylloidea***
biology 180
distribution
 Norway 4390
 Turkey 8304
 Panama, books 10240
 taxonomy 180, 8304
- Ptelea, Enchenopa binotata* complex, USA** 5955, 5957
- Pteleobius vittatus***
 pheromones 7076, 10005
Ulmus, German Federal Republic 10005
- Pteostichus melanarius***
biology, behaviour 8733
 prey, *Listronotus oregonensis* 8733
- Pterandrus rosa*** (see *Ceratitis rosa*)
- Pteridium aquilinum***
 biological control agents, evaluation 11504
Eriophyes quadrididus, South Africa 9674
 Formicidae, pollination 11512
 insects, UK 6636
 natural enemies, reviews 11512
Phaonia gallicola, galls 1389
 UK 11504
- Pteridium aquilinum* var. *esculentum***
 habitats, *Centrodora scolypopae*, New Zealand 8559
Scolypopa australis, New Zealand 8559
- Pteridium esculentum***
Drosophila, New South Wales 10509
 habitats, *Opius*, New South Wales 10509
- Pterocallis affinis***
Corylus colurna, India 2967
 taxonomy, new species 2967
- Pterocallis alni***
Alnus, UK 6806
 predators 6806
- Pterocarya rhoifolia***, *Kurisakia ailanthi*, galls 1840
- Pterochloroides persicae***
biology 4768
 peaches, Egypt 4768
- Pterocormus feralis*** (see *Ichneumon feralis*)
- Pterohelaeus alternatus***
Cicer arietinum, Queensland 7811
 ecology, distribution 7811
 sampling 7811
- Pterohelaeus darlingensis***, *biology, development* 1195
- Pterolonche inspersa***
biology 5558
 control, *Centaurea*, evaluation 5558
 food plants 5558
 Greece 5558
- Pteroma plagiophleps***
 forest trees, India 8890, 10980
 insecticides, toxicity 8890
 parasitoids 10980
- Pteromalidae***
biology, behaviour 3561
 hosts
 Diptera 2519
Dysaphis pyri 5736
Kaltenbachiola strobis 5999
 legumes, insect pests 2486
Opius 1469
 Ivory Coast 2486
 morphology 6255
 orchards, Iraq 5736
 Palaearctic Region 2519
 taxonomy 2486, 3561
- Pteromalinae***, taxonomy 3561
- Pteromalus***
 Arizona 4980
 forests, Hungary 8851
 hosts
Caenocephus aldrichi 1402
Dendrolimus pini 8851
Euura lasiolepis 4980
Melanagromyza hibisci 6862
 Tephritidae 2692
 India 2692
 okras, fields, India 6862
- Pteromalus apum***
 fungicides, effects 9445
 hosts, *Megachile rotundata* 9445
- Pteromalus coloradensis***
biology 11503
 hosts, *Paracantha gentilis* 11503
 morphology 11503
 USA 11503
- Pteromalus conopidarum***
biology 8539
 control, *Physocephala vittata*, evaluation 8539
 hosts, *Physocephala vittata* 8539
 lucerne, fields, Yugoslavia 8539
- Pteromalus medicaginis***
 hosts, *Eurytoma onobrychidis* 5688
 sainfoin, fields, Alberta 5688
- Pteromalus puparum***
 Bermuda 4828
Citrus, orchards, Pakistan 513
 control, *Pieris rapae* 4828
 hosts
Papilio demoleus 513
Pieris rapae 3497
 insecticides, toxicity 3497
- Pteromalus sequester***
 France 4695
 hosts, *Bruchophagus roddi* 4695
- Pteromalus venustus*** (see *P. apum*)
- Pterombrus rufiventris hyalinatus***
 Arizona 3530
biology, behaviour 3530
 hosts, *Cicindela* 3530
- Pteronidea*** (see *Nematus*)
- Pteropus seychellensis aldabrensis***, *Icerya seychellarum*, interactions 1570
- Pterostichini***
 North America 8215
 physiology, mandible, forces 2499
 taxonomy 8215
- Pterostichus***, taxonomy 8215
- Pterostichus coracinus***, forests, Pennsylvania 9966
- Pterostichus cupreus***
biology, development 366
 cereals, fields, Berlin 9444
 German Federal Republic 277
 habitats, Sweden 366
 insecticides, effects 696
 molluscicides, effects 277
 pesticides
 effects 9444
 toxicity 11212
 potatoes, fields, USSR 696
 prey, *Leptinotarsa decemlineata* 696
- Pterostichus granulatus***
 German Federal Republic 277
 molluscicides, effects 277
- Pterostichus lepidus***
 cereals, fields, Berlin 9444
 pesticides, effects 9444
- Pterostichus lucublandus***
biology, behaviour 8733
 carrots, fields, Quebec 8733
 prey, *Listronotus oregonensis* 8733
- Pterostichus madidus***
biology
 behaviour 1303
 predation 275
 ecology, population dynamics 8876
Fagus, forests, Belgium 8876
 predators 9396
 prey, Gryllidae 275
 UK 9396
- Pterostichus melanarius***
biology
 behaviour 1303, 4623
 development 366
 predation 275
 carrots, fields, Quebec 8733

Pterostichus melanarius *cont.*
fields, Montana 1525
habitats
German Federal Republic 2597
Sweden 366, 4623
insecticides, effects 696, 1525
monitoring, traps 1525
physiology, nervous system 2515
potatoes, fields, USSR 696
prey
Gryllidae 275
legumes, insect pests 1525
Leptinotarsa decemlineata 696

Pterostichus mutus, forests, Pennsylvania 9966

Pterostichus niger
biology
behaviour 4623
development 366
predation 275
habitats, Sweden 366, 4623
prey, Gryllidae 275

Pterostichus nigrata
biology, predation 275
prey, Gryllidae 275

Pterostichus oblongopunctatus
ecology, population dynamics 7421, 8876

Fagus, forests, Belgium 8876
Netherlands 4544
physiology, nervous system 2515
prey, invertebrates 4544

Pterostichus rhaeticus
Netherlands 4544
prey, invertebrates 4544

Pterostichus versicolor
cereals, fields, Berlin 9444
pesticides, effects 9444

Pterostoma palpinum, Spain 1178

Ptilodon capucina, Spain 1178

Ptilophora plumigera, distribution, Italy 9336

Pinus tectus
distribution, Antarctica 4389
monitoring, traps 10021
stored products 10021

Pychocheilus lucius, prey, *Anabrus simplex* 7500

Ptyleus nebulosus, sugarcane, India 2594

Publilia modesta
Formica altipetens, interactions 3615
Helenium hoopesi, Arizona 3615
predators 3615

Puccinia poae nemoralis, insecticides, effects 9607

Puccinia recondita, *Mycodiplosis*, interactions 11537

Puccinia striiformis, *Mycodiplosis*, interactions 11537

Puccinia suaveolens, vectors, *Cassida rubiginosa* 11510

Pueraria lobata, *Tetranychus kanzawai*, Japan 3748

Pueraria thunbergiana, *Scolytogenes puerariae*, Korea Republic 5046

Pueraria wallichii, *Kerria lacca* 9932

Puerto Rico
Anthonomus eugenii 9857-9858
Cajanus cajan, Lepidoptera 1669
Chrysomelidae 5899
Contarinia sorghicola 3723
parasitoids 1493
Cosmopolites sordidus 1593, 3823
Empoasca 9811
natural enemies 3886
Etiella zinckenella 1526
natural enemies 1527
parasitoids 9804
Microtharax lypiformis 8429
Oxydia vesulia 3949
Pentatomidae 9595
parasitoids 9596
Perileucoptera coffeella 1750, 7885
Spodoptera frugiperda 1492
tomatoes, insect pests 1714

Pulvinaria
control, insecticides 514
grapes, USSR 514
Romania 7311
taxonomy 7311

Pulvinaria aurantii (see *Chloropulvinaria aurantii*)

Pulvinaria betulae
food plants, Poland 5068
parasitoids 5068

Pulvinaria gibbulus, predators 6833

Pulvinaria innumerabilis
control 3035
Gleditsia 3035

Pummelos
Aonidiella aurantii, Israel 7744
Ceratitidis capitata 10722
Ricania sublimbata, China 1577

Pumpkins (see also *Cucurbita* spp.)
Anasa tristis 11702
Illinois 11711
Oklahoma 10781
Aphis gossypii 3861
Aulacophora foveicollis, India 11709
Coridius janus 11704
Epilachna, Brazil 5800
oils, attractants, *Trogoderma granarium* 4424

Punctius conchoniis, insecticides, effects 5206

Punica granatum (see *Pomegranates*)

Puntius javanicus, insecticides, toxicity 6174

Puromycin, effects, *Galleria mellonella* 116

Purshia tridentata
arthropods
ecology 6654
Wyoming 6654
litter
arthropods 6654
ecology 6653
Wyoming 6653

Puto pilosellae
biology 11523
distribution, Italy 11523
Thymus 11523

Pycnobracon mutator, taxonomy, from *Campyloneurus* 7308

Pycnoscelus indicus, Pacific Islands 191

Pycnoscelus surinamensis, trachea, volume, measurement 3450

Pydrin (see *Fenvalerate*)

Pyemotes
British Columbia 6001
hosts, *Barbara colfaxiana* 6001

Pyemotes dryas
hosts, *Ips typographus* 1836
Sweden 1836

Pyemotes emarginatus
hosts, *Contarinia acuta* 4995
Pinus taeda, forests, Louisiana 4995

Pyemotes herfsi, dates, commodities, damage 1913

Pyemotes tritici
biology, reproduction 8374
diets 1283
hosts
Bruchus dentipes 3870
insects 8374
Lasioderma serricorne 1283
rearing techniques 1283

Pygaera anastomosis (see *Clostera anastomosis*)

Pygaera cupreata (see *Clostera cupreata*)

Pygmephorus
Formicidae, phoresy 1171
mushroom compost, UK 6860
Trichoderma, interactions 6860
USSR 1171

Pyllostachys pubescens, *Dinoderus minutus* 9514

Pyracantha, *Nanophyllium pygmaeum*, Queensland 1765

Pyracantha coccinea, *Texocoris nigrellus*, USA 2939

Pyralidae
Africa 6552
biology, environmental factors 5621
conifers, Morocco 5984
control 10603
insecticides 10602
detection 3379
French Guiana 11075
Gramineae, North America 5584

Pyralidae *cont.*
maize
Benin 10602
tropics 10603
natural enemies 10603
parasitoids 5584, 6552
pathogens 11075
yams, commodities, India 7089

Pyrantel, effects, insects 6342

Pyrausta aurata, *Thymus*, Italy 11523

Pyrausta panopealis, research, conferences 10214

Pyrausta phoenicealis
biology 9509
control 9509
medicinal plants, China 9509

Pyrazines, *Sphingidae* 6414

Pyrazophos
control, *Liriomyza trifolii* 11782
effects, *Episyrphus balteatus* 2480
mixtures, nontarget effects, wheat, arthropods 2038
residues, chrysanthemums 2945
resistance, *Liriomyza trifolii* 9055
toxicity, *Carabidae* 2038

Pyrearinus termitilluminans, morphology, digestive system 1046

Pyrethrins
analysis 3199
control
Aphididae 9783
Scirtothrips kenyanensis 9902
effects, *Gryllobates sigillatus* 11973
growth regulators, effects 7576
mixtures
toxicity
Noctuidae 11158
Spilosoma obliqua 1953
nontarget effects, man 7198
residues, water 3199
reviews 1992
silver nitrate, effects 7575
synergism 6165, 11158
toxicity
Lepidoptera 3159
Prostephanus truncatus 10030
Tribolium castaneum 6165

Pyrethroid acaricides
mixtures, toxicity, *Panonychus citri* 9706
synergism 9707
toxicity
Acari 2880
Panonychus citri 9707
Tetranychus kanzawai 10105

Pyrethroid insecticides
control
apples, arthropod pests 10701
beet western yellows luteovirus, vectors 1613
Bothynoderes punctiventris 6912
Buzura suppressaria 5901
cotton, insect pests 2924, 3939
Epiblema uddmanniana 507
Graptopsaltria nigrofusca 10091
Isoptera 4548
Oscinella 6758
Pectinophora gossypiella 1730
Psylliodes chrysocephala 3850
detection 6484
development 11983
effects
Earias vittella 9065
Schistocerca gregaria 3173
food crops, decontamination, reviews 4207
insecticidal activity 934
metabolism, reviews 10180
microbial degradation 2064
mixtures
control
Bothynoderes punctiventris 6912
sugarbeet, arthropod pests 8728
mode of action, reviews 3168
nontarget effects 11983
Cicer arietinum 1672
Glabromicroplitis croceipes 1299
Typhlodromus pyri 10701
pest control 6125
residues
analysis 10182

Pyrethroid insecticides cont.

residues cont.

meat 6484

sea water 9096

resistance

Aphis gossypii 11173*Cacopsylla pyricola* 8623-8624*Chrysoperla carnea* 2509*Helicoverpa* 7184*Helicoverpa armigera* 6168, 7861, 11164*Heliothis virescens* 2915, 2921, 4927, 6153, 8775, 8778, 11978*Liriomyza* 6160*Phyllonorycter blancardella* 10699*Plutella xylostella* 7779, 8670*Typhlodromus pyri* 6817

reviews 1992

synergism 3155, 6155, 8624

reviews 3174

synthesis 1991

toxicity 11983

Acari 2880

beneficial insects 3497

Brevicoryne brassicae 5184*Callosobruchus maculatus* 1672

cotton 6954

Delphacidae 10104

Heliothis virescens 6155

insects 940, 8073

Spodoptera littoralis 3155

statistical analysis 3158

Pyrethroids

effects, mice 3187

mixtures, stability 931

penetration, *Rhizoglyphus echinopus* 4895

photolysis 958

physicochemical properties 11960

stability 931

structure 11961

Pyrethrum (see Pyrethrins)**Pyridaphenthion**

control

Bemisia tabaci 7879*Bradysia odoriphaga* 1706

degradation, photolysis 10097

residues, tea 770

toxicity

Mythimna separata 5668*Nephotettix virescens* 11567**Pyrrilla**, sugarcane, Pakistan 4603**Pyrrilla aberrans**

biology 3675

control 3675

maize, damage 3675

Pyrrilla perpusilla

biology 3675

control 3675, 6689

biological control 7585

insecticides 4611, 11553

diets 1207, 4429

ectoparasites 5471

growth regulators, effects 360

India 8392

maize

damage 3675

India 11553

parasitoids 361, 2595, 5589, 6691,

8392

augmentation 6689

physiology, digestive system 3298

rearing techniques 1207, 4429

sorghum, India 2666

sugarcane 1207, 4429, 6691

India 361, 2595, 5589, 5592, 6689, 7585

Pakistan 4611

Pyriproxyfen (2-[1-methyl-2-(4-phenoxyphenoxy)ethoxy]pyridine)control, *Dialeurodes citri* 7751, 11663nontarget effects, *Encarsia* 11663**Pyrocatechol**, effects, *Choristoneura confluenta* 3027**Pyronia tithonus**, UK 9530**Pyrrhalta luteola**

biology, environmental factors 10950

control, microbial pesticides 7011

forecasting 10014

parasitoids 9419

pathogens 5926

Pyrrhalta luteola cont.*Ulmus*

California 10014, 10950

France 5926

Ulmus pumila, Colorado 7011**Pyrrharctia isabella**

alkaloids, effects 108

biology, behaviour 6429

New York 108

pheromones 85, 108

physiology, sounds 85

USA 6429

Pyrrhia umbra

control, biological control 11754

tomatoes, USSR 11754

Pyrrhocoridae, cotton, Africa 5884**Pyrrhocoris apterus**

antiviral agents, effects 5177

biology

environmental factors 9315

reproduction 3269

carbon dioxide, effects 3269

chemosterilants, effects 2297

genetics 4347

mutants 4344

mutations 4348

pathogens 6068

physiology 4344

circadian rhythm 3272

endocrine system 5331

enzymes 4300

reproduction 5329

reproductive organs 5177

spermatozoa 6068

Pyrrrolizidine alkaloids

attractants, Chloropidae 3212

effects

Arctiidae 108

Lepidoptera 6424

uptake, *Cretonotos transiens* 1169**Pyrus***Anthonomus quadrigibbus*, North

America 8201

Euproctis chrysorrhoea, Italy 5970*Planococcus japonicus* 16

trees, parasitoids, Italy 5970

Pyrus calleryana, *Cacopsylla pyri*, resistance 1566**Pyrus communis** (see Pears)**Pyrus favierei**, *Cacopsylla pyri*, resistance 1566**Pyrus pyrifolia**

arthropod pests, India 8620

Graptopsaltria nigrofusca, Japan

10091

Pseudococcus comstocki 8619*Tetranychus urticae*, Korea Republic

8618

Pyrus ussuriensis × *P. communis*, *Cacopsylla pyri*, resistance 1566**Pythium**, vectors, *Bradysia impatiens* 8973**Pythium aphandidermatum**, Diptera, interactions 346**Pytho**, rearing techniques 2392**Pyxidiophora**, forest pests, mites, interactions 5024**Pyxidiophora asterophila**, mites, interactions 8988**Pyxidiophora lundqvistii**, mites, interactions 8988**Pyxinia**, hosts, *Lasioderma serricorne* 849**Quadraspidiotus labiatarum**

biology 11523

Thymus, Italy 11523**Quadraspidiotus ostreaeformis**

control, insecticides 5719

fruit trees, New Zealand 5719

Quadraspidiotus perniciosus

apples

commodities 11048

India 4737, 6810, 8601

attractants 7240

biology 524, 8548, 8580

control 524, 8548

biological control 4737, 6810, 7709,

8601, 11433

insecticides 8580, 9681, 11652

quarantine 7728

distribution, maps 6454

food plants 6454

USSR 8548

Quadraspidiotus perniciosus cont.

fruit trees, USSR 8580

fruits

Chile 7728

German Federal Republic 7709

USSR 524

India 9681, 11433

natural enemies 8601

parasitoids 3574, 6015, 8387, 11433

pheromones 11310-11311

plums, Pakistan 11652

predators 11652

radiation, effects 11048

reviews 10662

South Africa 3574

USSR 6015

Quadrifines, taxonomy 8291**Quadiplotriaena hypsokysta**, hosts, *Aeropedellus clavatus* 10054**Quadropia quadricarinata**, forests, Japan 10016**Qualea**, extracts, effects, Isoptera 1908**Quality controls**, beneficial arthropods, reviews 9449**Quamoclit hederifolia**, *Cylas formicarius*, Florida 6667**Quarantine***Amyeloides transitella*, Italy 7994

arthropod pests

Chile 5231

India 11129

Eriosoma lanigerum 10391

information, South East Asia 5175

Quadraspidiotus perniciosus 7728

stored products pests

German Federal Republic 3049

Pakistan 6025

USSR 869

Quassinoids, antifeedants, *Myzus persicae* 996**Quedius conicus***Picea abies*, forests, France 1837

taxonomy, new species 1837

Quercetineffects, *Papilio polyxenes* 1063phagostimulants, *Carpophilus**hemipterus* 8498**Quercus***Altica quercetorum*, damage 11830*Apethymus*, France 2972

Aphididae, Czechoslovakia 4011

Aradidae, Arkansas 3410

Cerambycidae, Mexico 2372

Cetonia aurata, Italy 4516

Coleoptera, Czechoslovakia 4040

Curculionidae, Belgium 1876

Cynipidae

Iraq 7078

Spain 4988

Elaphrothrips tuberculatus, Michigan

9303

Ephesia nymphaea 5963extracts, attractants, *Cyzenis albicans*

1851

forests

Chilopoda, Poland 7049

Collembola, Spain 4987

Cotesia melanoscelus, Maryland

3000

Gastropoda, Poland 6615

Ichneumonidae, Romania 2982

insects, Poland 7048, 7050

parasitoids, Italy 5932

Gracillariidae, New England 4024

habitats

Cyzenis albicans 1851*Dendrocheyla bregetovae*, USSR

12017

Eurygaster integriceps, Iran 3650

Hemiptera, damage 4043

Hypaurotis cryalis, Mexico 4005

insect pests

Australia 4006

damage 4006

USA 4006

USSR 810, 1802

Lepidoptera, Romania 2982

Leptophyes punctatissima, UK 9984*Leptothrips*, America 3970

Quercus cont.
litter
 Agathidium querceum, Nepal 10004
 Carinodula campbelli, Mexico 8895
Lymantria dispar 7933
 damage 9933
 France 4016
 Maryland 3000
 USSR 793
Morimus funereus 2986
Operophtera brumata 1851
 Canada 9018
Pammene querceti, Czechoslovakia 5385
Peridea anceps, USSR 3972
Phryganidia californica 3997
Phyllonorycter, Japan 5014
Polia latex, West Virginia 5943
Saperda scalaris, Poland 9995
Sitophilus zeamais, Georgia 8829
Taphrocoetes hirtellus 2947
Thaumetopoea processionea, Italy 5932
Tortricidae, USSR 1768
Tortrix viridana
 Italy 5969
 USSR 1803
Xyleborus alni, Czechoslovakia 5027

Quercus agrifolia
Cynipidae, California 1807
Phryganidia californica, California 1783, 8886

Quercus alba
Automeris zephyria, New Mexico 10983
Enaphalodes rufulus, Ohio 1780
extracts, effects, nuclear polyhedrosis viruses 8883
Lymantria dispar 8883
 Connecticut 5043
 Ontario 7954
 Pennsylvania 8900
Pseudoxenetus regalis, Missouri 2956

Quercus calliprinos, *Phyllonorycter quercus*, Israel 3990

Quercus cerris
Cynipidae, galls 11805
Diphyllaphis mordwilkoii, Italy 2979
forests, *Mesopolobus*, UK 11805
Synergus dacianus, Romania 2140
Taphrocoetes hirtellus 2947

Quercus chrysolepis, Cynipidae, California 1807

Quercus coccifera
insect pests, France 7052
Lepidoptera, Spain 7906

Quercus dalechampii, Coleoptera, Czechoslovakia 8828

Quercus dealbata
forests, *Pauesia lachniella*, India 10981
Lachnus tropicalis, India 10981

Quercus dentata
Andricus mukaigawae, galls 1867
Lepidoptera, Japan 10972

Quercus douglasii, Cynipidae, California 1807

Quercus durata, Cynipidae, California 1807

Quercus faginea, Lepidoptera, Spain 7906

Quercus frainetto, forests, Cryptostigmata, Greece 7034

Quercus glauca, *Glyptacus glaucae*, China 1829

Quercus harvardii, habitats, *Anthonomus grandis*, Texas 4937

Quercus ilex
Collembola 7014
forests, *Brachymeria intermedia*, France 3012
Lepidoptera
 control 819
 Spain 818-819, 1877, 7906
Lymantria dispar, outbreaks 3012
Steganacarus pseudocarinatus 3018
Taphrocoetes minor 2947

Quercus incana, *Andricus*, galls 6012

Quercus leucotrichophora, *Dicranognathus nebulosus*, damage 3991

Quercus lobata
Cynipidae, California 1807

Quercus lobata cont.
Phryganidia californica, California 1783

Quercus macrocarpa
arthropods, Kansas 10015
Lymantria dispar 10957

Quercus mongolica
Andricus mukaigawae, galls 1867
Lepidoptera, Japan 10972

Quercus mongolica var. grosseserrata, *Tetranychus quercivorus*, Japan 11826

Quercus muehlenbergii
fruits, *Rhyzopertha dominica* 11874
Lymantria dispar, Maryland 1834

Quercus nigra
Automeris zephyria, New Mexico 10983
insect pests, Florida 10997

Quercus nuttallii, *Janus quercusae*, USA 2954

Quercus oblongifolia, *Automeris zephyria*, New Mexico 10983

Quercus palustris
Lymantria dispar 5019
Melanaspis obscura, USA 5974

Quercus petraea
Cynipidae, galls 839
Lymantria dispar, Bulgaria 5981

Quercus phellos, *Automeris zephyria*, New Mexico 10983

Quercus prinus
Enaphalodes rufulus, Ohio 1780
Lymantria dispar, Pennsylvania 8900
Meganola spodia, West Virginia 11795
Odontota dorsalis, damage 10985

Quercus pubescens
forests, *Brachymeria intermedia*, France 3012
habitats, *Microselia southwoodi*, France 7008
Lymantria dispar, outbreaks 3012

Quercus pyrenaica
Asiopsocus meridionalis, Spain 8830
Lepidoptera, Spain 7906
Plagionotus arcuatus, Spain 11396

Quercus robur
Antheraea pernyi 3593
Cynipidae, galls 839, 11805
Epirrita autumnata 3986
forests, *Mesopolobus*, UK 11805
insect pests, damage 1770
Lepidoptera, UK 2985
litter, food, *Folsomia candida* 5354
Pharnacia acanthopus 4298
Stigmella dorsigutella, Poland 3431
Tenthredinidae, Poland 4038
Tischeria ekebladella, damage 11807
Vespa crabro 5463
wood, *Xylosandrus germanus*, damage 1909

Quercus rotundifolia
Neopsocus tunescicus, Spain 8830
Plagionotus arcuatus, Spain 11396

Quercus rubra
Enaphalodes rufulus, Ohio 1780
extracts, effects, nuclear polyhedrosis viruses 8883
insect pests
 damage 7964
 interactions 3973
Lymantria dispar 8883
 New York 1839
 Ontario 7954, 8869
 Pennsylvania 8900
Myzocallis walshii, France 4033
Odontota dorsalis, damage 10985

Quercus serrata
Andricus mukaigawae, galls 1867
Chrysomelidae, Japan 2953

Quercus suber, *Lymantria dispar*, Morocco 10001

Quercus velutina
extracts, effects, nuclear polyhedrosis viruses 8883
Lophocampa caryae, Virginia 8920
Lymantria dispar 8883
 Connecticut 5043
 Massachusetts 7959

Quercus virginiana
Brachys ovatus, Florida 11006

Quercus virginiana cont.
Curculio 1806

Quercusia quercus
biology 1877
Italy 2360

Quercus ilex, Spain 1877

Quinalphos (*O,O*-diethyl *O*-2-quinoxalinylophosphorothioate)
bioassays 3203
control
 Amrasca devastans 7842, 11774
 Amsacta albistriga 2846
 Anarsia ephippias 3867
 Atherigona 416
 aubergines, insect pests 11759
 Bagrada hilaris 5795
 Brevicoryne brassicae 4827
 Cajanus cajan, insect pests 5825
 Cavelerius sweeti 4606, 4610
 Chaetocnema indica 6748
 Cicadellidae 2887
 Drosicha dalbergiae 2718, 8578
 Drosicha mangiferae 5764
 Erysiphe pisi 10792
 Euwallacea fornicatus 9903
 groundnuts, insect pests 665
 Helicoverpa armigera 5832, 7669, 9865
 Hemiberlesia pitysophila 3978
 Hypera postica 476
 Indarbela 3825
 Lipaphis erysimi 2807, 6854
 Neoleucinodes elegantalis 8756
 Nilaparvata lugens 3163
 Noctuidae 2662
 Orseolia oryzae 10610
 Parlatoria zizyphi 7749
 Phthorimaea operculella 8744
 Piezodorus hybneri 9800
 Polyphagotarsonemus latus 689
 Psylliodes plana 3900
 Pyralidae 2838
 Pyrilla perpusilla 11553
 Quadraspidotus perniciosus 11652
 Raoiella indica 7711
 Rhynchaenus mangiferae 584
 Rivula 6899
 soyabeans, insect pests 6898, 9808
 Spodoptera litura 8788
 Tetranychus macfarlanei 11761
 Thrips tabaci 7829
 Thysanoptera 3784

effects
 bacteria 11214
 Nilaparvata lugens 422
 parasitoids 2846

mixtures, control, groundnuts, insect pests 665

movement, soil 11221

nontarget effects
 beneficial arthropods 3163
 Platygaster oryzae 10610

residues
 cabbages 3859
 Capsicum annuum 5866
 cauliflowers 3856
 grapes 11629
 groundnuts 2849
 mangoes 585
 sorghum 1494

resistance, *Plutella xylostella* 11694

toxicity
 Achaea janata 1721
 Aleurocanthus woglumi 4781
 Anomis sabulifera 7190
 Clavigralla gibbosa 9810
 Coccinella septempunctata 2476
 Cucurbitaceae 8688
 Cyrtorhinus lividipennis 11464
 Deporaus marginatus 11674
 fishes 8123
 Helicoverpa armigera 11975
 Leptocoris acuta 11178
 Lipaphis erysimi 3172
 Meloidae 3842
 Mylabris phalerata 10808
 Pteroma plagiophleps 8890
 Rhizoctonia solani 11193

Quinces (*Cydonia oblonga*)
Phyllonorycter corylifoliella, Italy 3776

Quinces cont.

Tortricidae, Italy 536

D-(-)-**Quinic acid**, mixtures, attractants, *Papilio protenor* 7750**Quinomethionate** (see Chinomethionat)**Quintalitus***Rothmannia capensis*, South Africa 10012

taxonomy, new genus 10012

Quintalitus squamosus*Rothmannia capensis*, South Africa 10012

taxonomy, new species 10012

R-20458 (see (E)-3-[5-(4-Ethylphenoxy)-3-methyl-3-pentenyl]-2,2-dimethyloxirane)**Rabbit droppings**, Scarabaeoidea, Spain 1211**Rabbits***Bacillus*, effects 9087

insecticides

effects 3185, 4186, 6180

toxicity 2042

microbial pesticides, effects 11967

Rabbium paradoxushosts, *Camponotus castaneus* 8323

taxonomy, new species 8323

Radar

measurement, insects, migration 6493

monitoring, *Nilaparvata lugens*, migration 10620**Radiation**

effects

Bombyx mori 9476*Pectinophora gossypiella* 6964**Radish mosaic comovirus**, vectors,

Aphididae 6853

Radishes (*Raphanus sativus*)

Aphididae, Afghanistan 6853

Brevicoryne brassicae, Japan 620*Delia radicum* 1598

German Federal Republic 3892, 8686

Poland 6911

Dichroplus elongatus 2403fields, *Cotesia plutellae*, Pakistan 225

habitats, predatory insects, South

Africa 5796

Hemiptera, South Africa 5796

Lipaphis erysimi 5218, 5497, 9778

economic thresholds 619

India 618

pest control, German Federal Republic 3893

Phaedon cochleariae 8687*Pieris rapae*, Massachusetts 9916*Plutella xylostella* 2811

Pakistan 225

varietal susceptibility 5780

Radium, pollutants, *Agrotis ipsilon* 4168**Raghava albipunctella** (see *Heliocheilus albipunctella*)**Rain**, effects, insecticides 8087**Rain forests**, *Eciton burchelli* 9376**Rainbow trout**, insecticides, effects 2024**Raisins***Ephestia cautella* 11020

Pyralidae, damage 5081

Raking, effects, Araneae 11592**Rambutans**, *Conopomorpha cramerella*, Malaysia 5900**Ramrod**, effects, *Diaeretiella rapae* 1618**Ramusella anuncata***Juniperus thurifera*, Spain 11863

taxonomy, new species 11863

Ramusella terricola*Juniperus thurifera*, Spain 11863

taxonomy, new species 11863

Ramuselloppia anomala*Juniperus thurifera*, Spain 11863

taxonomy, new species 11863

Rana tigrina, insecticides, effects 4198**Ranatra filiformis**, physiology, chemical composition 1126**Rangelands**

Acrididae 4684

economic thresholds 4684

Montana 4437

arthropod pests 11255

entomology, books 11255

Rangelands cont.

Isoptera

Africa 5509

damage 5508

Ranunculus asiaticus, insects, pollination 6993**Raoiella indica**

coconuts 10664

India 7711, 11619

control, acaricides 7711

predators 11619

Rape (*Brassica napus* var. *oleifera*)

arthropod pests

China 8064

German Democratic Republic 7550

Italy 11636

Korea Republic 1720

monitoring 8064

Baris laticollis, France 10767*Ceutorhynchus pallidactylus*, damage 605

Coleoptera

German Federal Republic 5784

Poland 2803

commodities, arthropod pests 6036

Dasineura brassicae, German Democratic Republic 604*Deroceras reticulatum*, damage 357extracts, attractants, *Dasineura brassicae* 604

fields

Athrycia cinerea, Saskatchewan 6867

predatory insects, Poland 4822

Tersilochus heterocerus, Sweden 3849

Gastropoda, Belgium 6627

genetics, genetic engineering, pest resistance 3137

insect pests

control

biological control 4155

insecticides 5167

German Democratic Republic

10765

Poland 5167

USSR 6865

varietal susceptibility 7777

insecticides, residues 9062

Lipaphis erysimi, India 5787*Mamestra configurata*, Saskatchewan 6867**Meligethes aeneus**

damage 1615

Europe 8071

Finland 5786, 9486

Poland 4822, 6868, 8672

Sweden 3847, 3849, 4821

Switzerland 3848, 9762

varietal susceptibility 10766

Myzus persicae 1614

India 5785

UK 8266

oils, effects, *Callosobruchus maculatus*

6047

pest control

France 8058

German Federal Republic 7260,

8055

Sweden 2801

Psylliodes chrysocephala

damage 4820

Sweden 3850

snails, German Federal Republic 7776

Rapeseed, Psocoptera, Manitoba 1902**Rapeseed oil**effects, *Aphis craccivora* 6887toxicity, *Vigna mungo* 6887**Raphanus raphanistrum**, insects, pollination 1399**Raphanus sativus** (see Radishes)**Raphia**, *Drosophila spinifrons*, Africa 11617**Raphidioptera**, taxonomy 3255**Raphidopalpa foveicollis** (see *Aulacophora foveicollis*)**Raspberries**

Aphididae

resistance 9656

varietal susceptibility 2706, 10675

arthropod pests 4714, 9120

Raspberries cont.

arthropod pests cont.

Belgium 10671

books 2090, 9120

Coleoptera

Switzerland 5705

USSR 506

Epiblema uddmanniana, USSR 507*Eutorna phaulocosma*, New Zealand 4715*Graphiphora augur*

damage 510

UK 509

insecticides, residues 4716

pest control 2090

Switzerland 5699, 5701, 5703,

5705, 5707

USSR 484

Washington 5698

pest resistance 9121

books 9122

Resseliella theobaldi, UK 3762*Tetranychus urticae*, Chile 4716

viruses, vectors, arthropods 5703

Rastrococcus

India 563

mangoes, India 10658

natural enemies 563

parasitoids 10658

Rastrococcus invadens

biological control agents, evaluation 10658

control, biological control 563, 6777

food plants, Togo 6777

natural enemies 563

trees, Togo 563

Rats

botanical insecticides, effects 7196

entomogenous fungi, effects 3117

insecticides

bioavailability 7107

distribution 957

effects 956, 970, 2043, 2050, 3189,

3192, 4189, 4192, 4196-4197,

5196-5198, 5201, 6192, 7174,

7210-7211, 8093, 8100-8101,

9076-9078, 10120, 11186,

11207, 11991-11992, 11996-

11997

metabolism 2025-2026, 8102, 9075,

11196

toxicity 963, 971, 2033, 7215

microbial pesticides, effects 11967

pesticides

effects 10133

residues 985

Rattus norvegicus, prey, arthropods 8849**Rattus rattus***Icerya seychellarum*, interactions 1570

insect viruses, interactions 872

prey, insect pests 872

Raya (see Indian mustard)**Raychaudhuriella**, taxonomy, synonyms, of*Eoessigia* 3746**Raychaudhuriella myzaphoides**, taxonomy,synonyms, of *Eoessigia indica* 3746**Raychaudhuriella potentillae**, taxonomy,synonyms, of *Eoessigia indica* 3746**Rearing techniques***Agrotis segetum* 2401*Amblyseius mckenziei* 6565*Anastatus japonicus* 9425*Anastrepha obliqua* 10067*Anastrepha suspensa* 9351*Antheraea* 9473*Antheraea paphia* 10490*Anthrenus grandis* 9358, 9366*Apanteles congregatus* 217*Aphidius matricariae* 257, 6122*Aphidoletes aphidimyza* 1278, 3552, 6115*Athalia rosae* 6399*Autographa biloba* 2299*Autographa gamma* 7454*Bactrocera cucurbitae* 169, 11405*Bactrocera dorsalis* 11410*Bactrocera oleae* 9362*Bemisia tabaci* 10859

beneficial arthropods 712

beneficial insects 6229

Rearing techniques cont.

Bombyx mori 3592, 4560, 5528, 6606, 9676, 10317, 10488-10489
Bracon hebetor 2520, 4496
Brinckochrysa scelestes 218
Calliphoridae 8661
Cerambycidae 7020
Ceratitis capitata 2390, 4426, 5399, 10382, 11404
Cercopidae 11406
Cheiloneurus pyrrillae 5592
Chilo partellus 6496, 11413
Chrysoperla carnea 4469, 5457, 5473, 6119, 11460
Clavigralla tomentosicollis 652
Cnaphalocrocis medinalis 176
Coleoptera 2392
Corcyra cephalonica 9359, 10386
Cossus cossus 177
Cotesia flavipes 8383
Cryptolaemus montrouzieri 8570
Cycloneda zischkai 11429
Cydia molesta 11407
Cylindrocopturus adpersus 5870, 7850
Cyrtorhinus lividipennis 11581
Dactylopius coccus 4561
Delia floralis 6938
Diaprepes abbreviatus 1208
Diatraea saccharalis 4607
Diglyphus begini 5912
Drosophila melanogaster 6500
Ectropis obliqua 8798
Edovum puttleri 3901
Encarsia 1277, 3494
Encarsia formosa 8369
Eocanthecona furcellata 2388
Epidinocarsis lopezi 6936
Ernestia consobrina 1963
Eupeodes corollae 2458
forest pests 5003
Formicidae 9383
Glabromicroplitis croceipes 1301
Gryon 6544
Gyransoidea tebygi 6777
Haplogonotopus atratus 9433
Helicoverpa armigera 5361, 9360
Helix 2543-2544
Helix aspersa 306
Hemiptera 3666
Hepialidae 10381
Homoptera 2769
insects 8310, 11409
 endangered species 6397
 models 11412
 USSR 11408
Ips calligraphus 5015
Lepidoptera 4662
Liposcelis entomophilus 10380
Liriomyza trifolii 633
Macrolophus caliginosus 4480
Manduca sexta 7464
Microtermes 5510
models 2383
Neoseiulus cucumeris 9443
Neoseiulus fallacis 4497, 8600
Noctuidae 5554
Onthophagus gazella 7457
Onsira palliatus 3967
Ophiomyia phaseoli 2843
Orius sauteri 3532
Ostrinia furnacalis 4636
Ostrinia nubilalis 5620
Paranthrene tabaniformis 4430
parasitoids 255, 2457, 6535, 6558
Paratheresia claripalpis 3517
Pauesia cedrobii 5007
Pectinophora gossypiella 6964
Pheropsophus jessoensis 9426
Phlyctinus callosus 2397
Phryxe vulgaris 4495
Phyllonorycter blancardella, parasitoids 4502
Phytoseiulus persimilis 5502
Picromerus bidens 10460
Pieris brassicae 1210
Podisus maculiventris 1236
Porphyrophora hamelii 2539, 2541
Procecidochares utilis 3620
Psallus seriatus 7863
Pyemotes tritici 1283
Pyrrilla perpusilla 1207, 4429

Rearing techniques cont.

Rhaconotus signipennis 6686
Rhynchophorus 11618
Rhyzopertha dominica 6035
Sarasinula plebeia 312
Schizaphis graminum 5679
Scirpophaga incertulas 5657, 11576
Sesamia calamistis 10384
Sitodiplosis mosellana 2610
Sitophilus oryzae 1203
Spilosoma obliqua, books 3462
Spodoptera mauritia 443
stored products pests 8929
Sturmiopsis inferens 6685
Telenominae 9420
Telenomus remus 2439
Tephritidae 2383, 4235
Termtaphyllum insigne 227
Tetranychus urticae 5502
Tipula 2396
Tortricidae 4421
Tribolium anaphe 4431
Trichogramma 170, 210-211, 4485, 5501, 7770, 7773, 9415
Trichogramma chilonis 7508
Trichogramma evanescens 11754
Trichogramma maidis 6549
Trichogramma pintoi 3126
Trioxys pallidus 3772
Unaspis yanonensis 4778
Varroa jacobsoni 1265
Recilia dorsalis
cell lines, plant viruses, infection 875
ecology, population dynamics 5653
natural enemies 10627
plant pathogens 5653
 transmission 10627
predators 10612
rice
 Malaysia 10627
 Philippines 5653
 resistance 6725
 Thailand 10612
Recurvaria pistaciicola (see *Schneidereria pistaciicola*)
Red beans (see *Vigna angularis*)
Red beet (see *Beetroots*)
Red clover (see *Trifolium pratense*)
Red currants
Acari, Switzerland 5700
arthropod pests, Belgium 10671
Cecidophyopsis ribis, varietal susceptibility 10687
Cryptomyzus, Netherlands 8562
Nematus, USSR 512
pest control, Switzerland 5699, 5708
Plesiocoris rugicollis, USSR 511
Synanthedon tipuliformis
 Australasia 8560
 Hungary 8560
Red gram (see *Cajanus cajan*)
Red maple (see *Acer rubrum*)
Red pepper (see *Capsicum*)
Red pine (see *Pinus resinosa*)
Red spruce (see *Picea rubens*)
Red top (see *Agrostis alba*)
Reldan (see *Chlorpyrifos-methyl*)
Release techniques
beneficial insects 6229
Phytoseiulus persimilis 9432
Trichogramma 171-172, 216, 904-905, 6679
Remote sensing, entomology, reviews 2398
Reoviridae
hosts
 Drosophila simulans 4143
 Peregrinus maidis 3678
Repellents
control, insect pests 3120
information 10185
Reports
Australia
 Department of Agriculture, Western Australia 11280
 Sunraysia Horticultural Research Institute 9132
Belgium
 Centre de Recherches Agronomiques de l'Etat Gembloux 9136
 Comité voor Onderzoek op Groentegewassen 10219

Reports cont.

Botswana, Ministry of Agriculture, Department of Agricultural Research 2116
Brazil
 National Cotton Research Centre 7852
 UEPAE Dourados 11279
Canada
 Lethbridge Research Station 8183
 Research Station, Kentville, Nova Scotia 10218
Colombia, Centro Internacional de Agricultura Tropical 712
Denmark
 Danish Pest Infestation Laboratory 5247
 Plantevaernscentret 10222
Europe, IOBC/WPRS Integrated Arable Farming Systems Working Group 12036
France, Centre Technique Interprofessionnel des Fruits et Legumes 10221
German Federal Republic, Biologische Bundesanstalt für Land- und Forstwirtschaft in Berlin und Braunschweig 8188
Ghana, Cocoa Research Institute 11273
India
 Associated Agricultural Development Foundation 8186-8187
 Biological Control Centre, ICAR 5245
 Central Institute for Medicinal and Aromatic Plants 7293
 Central Plantation Crops Research Institute 11277
 Central Potato Research Institute 1686-1689, 2115
 Central Tobacco Research Institute 6985
 Coffee Board Research Department 7294
 ICAR Research Complex for North Eastern Hills Region 7290-7291
 International Crops Research Institute for the Semi-Arid Tropics 8154
 National Research Centre for Spices 7296, 11276
 Regional Research Laboratory, Jammu-Kashmir 7288-7289
 International Crops Research Institute for the Semi-Arid Tropics 5246
 International Institute of Tropical Agriculture Genetic Resources Unit 1650
Irish Republic, An Foras Talúntais 9138
Italy
 FAO/WHO 1023, 7301
 Istituto Sperimentale per le Colture Industriali 10220
Kenya
 International Centre of Insect Physiology and Ecology 5242-5243
 Tea Research Foundation 11274
Mauritius, Sugar Industry Research Institute 364, 11278
Netherlands
 Glasshouse Crops Research and Experiment Station 9131
 Phytopathological Service 7297
 Plantenziektenkundige Dienst Wageningen 3145, 4246
 Rijksinstituut voor Onderzoek in de Bos- en Landschapsbouw 'De Dorschkamp', Wageningen 1520
Papua New Guinea, Oil Palm Research Association 9134
Philippines
 International Rice Research Institute 8185
 Philippine Coconut Authority 8180
Poland, Warsaw Agricultural University 8181, 11275

Reports cont.

- Reunion, Institut de Recherches Agonomiques Tropicales et des Cultures Vivrières 3645, 3666
- Sarawak, Department of Agriculture 7299
- Singapore, Primary Production Department 5248
- South Africa, South African Sugar Association Experiment Station 1422, 9133
- Sri Lanka, Coconut Research Institute 7292
- Sudan, Gezira Research Station and Substations 2118, 7298
- Switzerland
FAO/WHO 10224-10225
WHO 9137
- Syria, International Center for Agricultural Research in the Dry Areas 2117
- Taiwan
Asian Vegetable Research and Development Center 2119
Taichung District Agricultural Improvement Station 7295
- UK
AFRC Institute of Arable Crops Research 6245
Agricultural Training Board 6246
Animal and Grassland Research Stations 9135
Broom's Barn Experimental Station 6245
Building Research Establishment 6244
Forestry Commission 5034
Overseas Development Natural Resources Institute 7300, 10223
Welsh Plant Breeding Station 8184
- USA
Hawaiian Sugar Planters' Association 8182
Ohio Agricultural Research and Development Center 2113
World Meteorological Organization 5244
Zimbabwe, Tobacco Research Board 3944
- Reproduction**, insects, conferences 8179
- Research projects**, Orthoptera 5423
- Research workers**, Acari, Australasia, directories 6232
- Reservoirs**, insecticides, residues 8141, 8145
- Residential areas**, pest control, USA, books 11259
- Resins**, toxicity, *Coptotermes formosanus* 7112
- Resmethrin** ([5-(phenylmethyl)-3-furanyl]methyl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropane-carboxylate)
control, *Atta texana* 10943
effects, cell cultures 976
mutagenicity, *Salmonella typhimurium* 977
nontarget effects
evaluation 7303
reviews 7303
residues, foods 7303
(1*R*-*cis*)- (see Cismethrin)
(1*R*-*trans*)- (see Bioresmethrin)
- Resmethrins**, nontarget effects, reviews 7303
- Resseliella ribis**
black currants, Poland 8561
control, insecticides 8561
- Resseliella theobaldi**
control 3762
raspberries
resistance 9122
UK 3762
small fruits, Switzerland 5701
- Reticulitermes**
control
insecticides 11491
microbial pesticides 11480
forests, Florida 11491
Mississippi 11480

Reticulitermes cont.

- monitoring, traps 9363
- Reticulitermes banyulensis**
biochemistry, glands 11042
Formicidae, interactions 11042
France 11042
- Reticulitermes flavipes**
Acer saccharinum, Ontario 11950
biology 9465
behaviour 3576, 11044, 11488
buildings, Florida 3576
control
insecticides 8576
microbial pesticides 11480
fungicides, toxicity 7536
genetics, alleles 7538
growth regulators, effects 8959
marking 10484
Mississippi 11480
monitoring, traps 9363
Ontario 9363, 9465, 11488
pathogens 11950
pecans, Oklahoma 8576
physiology
pheromones 10483
water relations 6603
Pinus, wood, USA 8961
plant pathogens, interactions 11044
symbionts 282
Tennessee 7538
trees, German Federal Republic 1910
wood 8959
- Reticulitermes grassei**
biochemistry, glands 11042
Formicidae, interactions 11042
France 11042
- Reticulitermes hesperus**
Oligoporus balsameus, interactions 4077
plant extracts, attractants 4077
Pseudotsuga menziesii, wood, California 4077
- Reticulitermes lucifugus**
distribution
Italy 283
Switzerland 142
plant extracts, attractants 11489
- Reticulitermes santonensis**
biochemistry, glands 11042
Formicidae, interactions 11042
France 11042
insecticides, toxicity 6600
- Reticulitermes speratus**
biology, behaviour 5503
China 5503
- Reticulitermes tirapi**
India 4545
pathogens 4545
- Reticulitermes virginicus**
biology, behaviour 3576
buildings, Florida 3576
Pinus, wood, USA 8961
- Retinia metallica** (see Petrova metallica)
- Retithrips syriacus**
predators 2468
Ricinus communis, resistance 4813
- Retracrus elaeis**
biology 8550
food plants, Costa Rica 8550
morphology 8550
- Retracrus johnstoni**, *Chamaedorea elegans*, Costa Rica 8550
- Reunion**
Aphididae 10226
Citrus, Hemiptera 7745
Helix aspersa 5533
maize, Hemiptera 3666
- Reuteria craigi**
Acer saccharum, Missouri 815
morphology, genitalia 815
taxonomy, new species 815
- Reviews**
Acari
damage, trees 2694
forests 1775
Acorus calamus, insecticidal properties 5082
agricultural chemicals, nontarget effects 4202
allethrin, nontarget effects 9137

Reviews cont.

- Aphididae
biology, migration 1421
ecology 4359
forests, biological control 7044
plant viruses, India 6059
symbionts 4844
- Aphis gossypii*, population dynamics 7870
- arthropods
biology, reproduction 5284
diapause 1149
digestive system 7356
ecology 2332
nervous system 1099
organic wastes, effects 6445
pheromones 7342
tannins, effects 4170
taxonomy 7466
weeds, interactions 10518
- Attini, fungi, interactions 4459
- Auchenorrhyncha, plant viruses, transmission 3109
- Bacillus thuringiensis* 1929
genetics 7127
research 8995
toxicity 10058
- Baculoviridae 1962
biotechnology 8015, 8033
genetic engineering 3108
genetics 8007
- banana bunchy top virus 8655
- Bemisia tabaci* 11770
- beneficial arthropods
pesticides, effects 10089
quality controls 9449
- beneficial insects, vegetation, effects 9434
- biological control 6118, 8050, 9015
Asia 3427
Latin America 5160
USA 10090
USSR 273
- Braconidae, Apidae 6553
- Brassica*, insect pests 2799
- Bruchidae, biology, behaviour 8968
- Ceratopogonidae, behaviour 9299
- cereals, pest resistance 11120
- Choristoneura*, population dynamics 7029
- Chrysomelidae
cucurbitacins, attractants 6866
defence, evolution 6300
- citrus tristeza closterovirus, transmission 6829
- climatic change, conservation 5376
- Coleoptera
fungi, interactions 4367, 5062
pheromones 1080
plant pathogens, transmission 8006
- Cosmopolites sordidus* 7758
- cotton, ratooning 1726
- crops, pest control 590-591
- Cryptophlebia leucotreta*, biology 3755
- cyclodiene insecticides, nontarget effects 7302
- cypermethrin, nontarget effects 4248
- DDT
nontarget effects 4247
usage 9053
- Delia*, control 2785
- Delphacidae, biology 7401
- Diptera, pheromones 7340
- Drosophila*, sexual behaviour 11372
- Drosophila melanogaster*, uses 10375
- Eichhornia crassipes*, biological control 10519
- entomology
remote sensing 2398
stored products 7081
- entomopathogens, models 8034
- Entomophthorales, biology 7130
- ethyleneimine, mutagenicity 10098
- Eucharitidae 4153
- flowers, pest control 779
- forest pests
China 5989
Ontario 11865-11868
- Formicidae, foraging 2431
- fruit trees, pest control 489
- fruits, pest control 487

Reviews cont.

- Glabromicroplitis croceipes*
 - behaviour 1297-1298, 2438
 - biology 2901
 - insecticides, nontarget effects 1299
- greenhouse crops, pest control, Czechoslovakia 11686
- groundwater, insecticides, pollution 10142
- Helicoverpa armigera*, natural enemies 1323
- Heliothis*
 - biological control 3123, 3130
 - parasitoids 1296
- Hemiptera, rice, resistance 6725
- Heterocera, pheromones 7369
- Heteropsylla* 8904
- Heteroptera, development 4287
- hexachloro-1,3-butadiene, nontarget effects 4193
- Hypothenemus hampei* 8795
 - biological control 6987
- insect growth regulators, mode of action 11153
- insect pests
 - economic thresholds 920
 - determination 919
 - learning 2312
- insect viruses 10988
- insecticides
 - degradation 3201
 - development 8080
 - insecticide resistance, management 5202
 - leaching 2802
 - metabolism 10180
 - mode of action 10113, 10180
 - movement, soil 9092
 - resistance, evolution 11969
- insects
 - behaviour 5505, 7405
 - acoustics 9313
 - carbon dioxide, effects 3153
 - cold resistance 6439
 - communication 3313
 - cuticle, sclerotization 11305
 - digestion 6317
 - digestive system, evolution 7357
 - diuresis, peptides 9270
 - fungi, interactions 4817, 5064-5065, 5102, 5123, 5164
 - genetics 7391
 - hormones 9257
 - immune response 11314
 - immunity 8223
 - isoenzymes 4340
 - life cycle 1146
 - marking 3439
 - migration 1157
 - morphology, reproductive organs 2161
 - nervous system 7359-7360, 8244
 - development 11319
 - metamorphosis 11322
 - peptides 1105
 - regenerative ability 11320
 - neurohormones 993
 - neuropeptides 8243
 - nutrition 6319
 - oviposition 6419
 - pheromones 7341
 - physiology
 - bioenergetics 1057
 - nervous system 2246
 - plant pathogens, transmission 11060
 - plants, interactions 2557, 6406
 - population dynamics 1168, 6405
 - reproduction 6289
 - sampling 6447
 - seasonality 1164
 - senses 1107
 - sex pheromones 3294
 - symbionts 2339
 - Umbelliferae, evolution 8411
- integrated pest management, USA 8061
- invertebrates
 - conservation tillage, effects 8410
 - glutathione transferase 6294
 - heavy metals, effects 10155
 - immune response 5305

Reviews cont.

- invertebrates cont.
 - nervous system 5324
 - evolution 2243
 - octopamine 9220
 - physiology 6370
- Isoptera
 - control 11477
 - forest trees 831
- Lambdina fiscellaria*, Canada 9975
- Lantana camara*, biological control, New South Wales 6633
- Lepidoptera
 - digestive system 5288
 - food plants, pheromones 6424
 - pheromones 1079
 - sex pheromones 6306
- Leptinotarsa decemlineata*
 - control 7819
 - diapause 11340
- lucerne, pest resistance, Australia 6768
- Lymantria dispar*, North America 7944
- Maconellicoccus hirsutus* 6624
- Macrotermitinae, *Termitomyces*, interactions 4554
- maize, Lepidoptera, tropics 10603
- man, insecticides, effects 8113
- methiocarb, usage 299
- microbial pesticides 7159
- Nabidae, ecology 2504
- neem extracts
 - effects, insects 3151
 - uses 5580
- Nezara viridula*, ecology 2303
- Noctuidae
 - ecology 2302
 - pheromones 11306
- Nosema* 7097
- ornamental plants, pest control 772
- Ostrinia nubilalis*, North America 6713
- parasites, evolution 1284
- parasitoids
 - behaviour 7512
 - ecology 7501
- Pectinophora gossypiella*, genetics 6964
- pest control
 - Azadirachta indica* 9050
 - entomogenous fungi 3105, 6831
 - expert systems 5141
 - genetic engineering 3138
 - genetic transformation 11356
 - Israel 1375
 - juvenile hormone analogues 4217
 - microbial pesticides 1966, 8052, 11953
 - neem extracts control 1990
 - pheromones 4218, 7168
 - viral insecticides, USSR 10082
- pest resistance 1978, 4161
- pesticides
 - effects, mammals 10183
 - formulations 1989, 6141, 10183
 - microbial degradation 10180
 - mode of action 10183
 - nontarget effects 11226
 - Malaysia 8056
 - residues, *Apis mellifera* 11210
 - resistance, economics 3156
- Phenacoccus manihoti*, natural enemies 6937
- pheromones
 - determination 3440
 - insects 3295
 - pest control, olives 8650
 - synthesis 1089
- Phthorimaea operculella*, biology 1679
- pineapples, insect pests 3828
- plant breeding, books 9121
- plant extracts, toxicity, insect pests 7578
- plant viruses, vectors, control 3090
- plants
 - herbivores, interactions 5173
 - secondary metabolites, immunoassay 10182
- Pomacea canaliculata*, Japan 449
- predation, responses 6578
- Pseudococcidae, biological control 906
- Psila rosae*, control 3899

Reviews cont.

- Pteridium aquilinum*, natural enemies 11512
- pyrethrins 1992
- pyrethroid insecticides 1992
 - food crops, decontamination 4207
 - mode of action 3168
 - residues, analysis 10182
 - synergism 3174
- Quadraspidotus perniciosus* 10662
- resmethrins, nontarget effects 7303
- Rhagoletis mendax* 3764
- Rhagoletis pomonella* 10707
- Rhopalosiphum padi* 5594
- Rodolia cardinalis*, California 2767
- Scarabaeidae, sugarcane 3647
- Scelionidae 4152
- Scolytidae
 - behaviour, competition 11847
 - control, pheromones 1796
 - fungi, interactions 5063
- sericulture, India 10494
- social insects
 - biology 8286
 - mites, interactions 7515
- soil arthropods, behaviour 8269
- sorghum, *Chilo partellus*, resistance 3719
- Spodoptera*, antifeedants 7245
- Spodoptera frugiperda* 3603
- stored products, pest control 1897
- stored products pests, pheromones 4056
- Strepsiptera 4473
- sugarbeet, insect pests, USSR 2860
- sweet potatoes, insect pests 7827
- tea, pest control, Sri Lanka 3955
- Telenomus*, Pyralidae, Africa 6552
- triflumuron 3206
- tropics, rice, viruses 5672
- weeds, biological control 6660, 10517
- wheat, insect pests, damage 4602
- Xylocopa*, ecology 3033
- Zonocerus variegatus*, biology 5417
- RH-5849** (see *O*-[4-(1,2-Dibenzoyl-1-tert-butylhydrazine)]
- RH-7988**, control, *Pemphigus populitransversus* 4826
- RH-994** (see *O*-[4-[(4-Chlorophenyl)thio]phenyl] *O*-ethyl *S*-propyl phosphorothioate)
- Rhabdopyris zeae* (see *Holepyris sylvanidis*)
- Rhabditidae**
 - hosts
 - Lepidoptera 6745
 - Ommatolulus moreleti* 6016
 - Scolytidae 7055
- Rhabdophaga deletrix*
 - distribution, Netherlands 4000
- Salix alba* 4000
- Rhabdoviridae**
 - hosts
 - Anastrepha suspensa* 11329
 - Drosophila melanogaster* 8974
 - vectors, Hemiptera 6702
- Rhaconotus scirpophagae*
 - Gramineae, habitats, India 9527
 - hosts, *Scirpophaga excerptalis* 9527
- Rhaconotus signipennis*
 - biology, development 6686
 - hosts, *Bissetia steniella* 6686
 - India 6686
 - rearing techniques 6686
- Rhadinomerus sulcipennis*
 - Sterculia campanulata*, India 7059
 - taxonomy, new species 7059
- Rhagium inquisitor*
 - biology 7020
 - Pinus*, Spain 7020
 - rearing techniques 7020
- Rhagoletis*
 - distribution 3753
 - food plants 4731
 - fruits 3753
- Rhagoletis cerasi*
 - biology 1021
 - control 1021
 - food plants, Europe 3801
 - genetics 3801
- Rhagoletis completa*
 - attractants 8577

- Rhagoletis completa* cont.
monitoring, traps 8577
plant extracts, attractants 9668
walnuts, California 8577
- Rhagoletis conversa*
biology, phenology 4882
Solanum, Chile 4882
- Rhagoletis indifferens*
distribution, Colorado 4731
food plants 4731
monitoring, traps 4731
- Rhagoletis mendax*
biology
behaviour 11616
reproduction 4751
blueberries
Michigan 4751
North America 1538, 3764, 8563
North Carolina 8555
forecasting 8555
fruits, Michigan 11616
genetics, population genetics 11616
monitoring, traps 8563
natural enemies 3764
plant extracts, attractants 508
reviews 3764
Rhagoletis pomonella, hybridization 1538
- Rhagoletis pomonella*
apples 4756
Massachusetts 8617
Michigan 4751
New York 8606
North America 1538
Oregon 11645
resistance 1563
USA 3458
varietal susceptibility 1564
attractants 8626
biology 9683
behaviour 3009, 3458, 4741, 6805, 7738, 11616
development 9284
phenology 4733
races 5727
reproduction 4751
control
insecticides 11645
integrated control 8617
- Crataegus mollis*, Massachusetts 3009, 5013
distribution, maps 6460
ecology
distribution 5013
mortality 6446
evolution 5734
food plants 548, 4741, 6460
America 8597
Colorado 4731, 4755
Illinois 543
Massachusetts 6805
USA 5727, 5734
Utah 4733, 7738, 8626
fruits, Michigan 11616
genetics 8597
genes 5734
population genetics 11616
races, phenology 543
insecticides, toxicity 4756
Klebsiella oxytoca, interactions 9284
Malus, New York 9683
monitoring, traps 4755, 8606, 8626
oviposition deterring pheromones 548
reviews 10707
Rhagoletis mendax, hybridization 1538
- Rhagoletis ribicola*
distribution, Colorado 4731
food plants 4731
monitoring, traps 4731
- Rhagoletis suavis*
biology, development 9284
Klebsiella oxytoca, interactions 9284
- Rhagoletis tabellaria*
distribution, Colorado 4731
food plants 4731
monitoring, traps 4731
- Rhamnus alaternus*
forests, *Brachymeria intermedia*, France 3012
Lymantria dispar, outbreaks 3012
- Rhamnus catharticus*, *Acrosternum hilare*, Canada 7057
- Rhamnus davurica*, extracts, effects, *Helicoverpa assulta* 8786
- Rhaphidia*, morphology, spermatozoa 3255
- Rhesala moestalis*, *Peltophorum inerme*, India 11798
- Rheum palma*, insecticides, effects 3639
- Rheum rhabarbarum*, *Aphis fabae*, German Democratic Republic 3237
- Rheum rhaponticum* (see *Rhubarb*)
- Rheumaptera hastata*
biology 5709
black currants, USSR 5709
control, insecticides 5709
- Rhigognostis*
Brassicaceae, Palaearctic Region 3233
Europe 3233
taxonomy 3233
- Rhinocoris fuscipes*
prey, *Rivula* 8713
soyabeans, fields, India 8713
- Rhinocyllus conicus*
biology 5552
control, *Silybum marianum*, evaluation 5552
- Rhinotermes malaccensis*
Malaysia 8230
physiology, secretions 8230
- Rhinotermitidae*
biology, behaviour 3576
buildings, Florida 3576
taxonomy 8230
- Rhinotermitinae*, taxonomy 8230
- Rhipiphorina*, taxonomy, synonyms, of *Euphoria* 1039
- Rhipiphorothrips cruentatus*
biology, distribution 2776
control, insecticides 2776
Eugenia malaccensis, Taiwan 2776
- Rhizaspidiotus canariensis*
biology 11523
Thymus, Italy 11523
- Rhizoberlesia*, taxonomy, synonyms, of *Therioaphis* 6261
- Rhizobium*, insecticides, effects 10136
- Rhizobium meliloti*, insecticides, effects 5207
- Rhizobius satellus*
avocados, orchards, Queensland 7743
control, *Hemiberlesia lataniae* 7743
- Rhizococcus transversus*
bamboos, China 8414
predators 8414
- Rhizoctonia solani*
biological control 4872, 10598
biological control agents, evaluation 1925
control 9020
insecticides, toxicity 11193
- Rhizoglyphus*
acaricides, toxicity 9052
tyres, South Africa 8318
- Rhizoglyphus echinopus*
biochemistry, amines 11344
biology
development 3912
phenology 1705
control, acaricides 1705
fungicides, metabolism 11168
garlic
Korea Republic 1705
USSR 720
onions 3912
pesticides
penetration 4895
toxicity 2880
predators 223, 1311, 2472
- Rhizoglyphus robini*
acaricides, toxicity 9052
insecticides, resistance 8082, 11748
onions, Taiwan 11748
predators 1344, 1521
pyrethroid insecticides, effects 5187
Taiwan 8082
- Rhizoglyphus setosus*, acaricides, toxicity 9052
- Rhizophagus*
biology 1820
forest trees, habitats, India 1820
morphology 1820
- Rhizophagus* cont.
prey, insects 1820
taxonomy 1820, 9139
- Rhizophagus bipustulatus*
ecology, population dynamics 9938
Israel 9938
prey, Scolytidae 9938
- Rhizophagus brunneus brunneus*, Nearctic Region 9139
- Rhizophagus brunneus fenyesi*, Nearctic Region 9139
- Rhizophagus depressus*
attractants 803
biology 4979
Pinus sylvestris
forests, Poland 4979
Sweden 803
Tomicus piniperda, interactions 4979
- Rhizophagus galbus*
Populus trichocarpa, Canada 9139
taxonomy, new species 9139
- Rhizophagus pseudobrunneus*
Pinus, North America 9139
taxonomy, new species 9139
- Rhizophora mucronata*, *Coccotrypes fallax*, Philippines 9927
- Rhizoplatys auriculatus*
morphology, mouthparts 3508
prey, *Apis mellifera* 3508
- Rhizopus*, hosts, Lepidoptera 6745
- Rhizopus arrhizus*
hosts, *Pogonomyrmex rugosus* 11946
insecticides, degradation 979
vectors, *Eumerus* 5836
- Rhodobium porosum*
biology 1753
phenology 4676
monitoring, traps 4676
roses, German Democratic Republic 1753
sorghum, Venezuela 4676
- Rhododendron*
Frankliniella occidentalis, German Federal Republic 10899
litter, *Agathidium querceum*, Nepal 10004
Pealus azaleae, Czechoslovakia 4272
Stephanitis pyrioides, Maryland 8814
- Rhododendron indicum*, *Planococcus japonicus* 16
- Rhododendron kiusianum*, Geometridae, Japan 1761
- Rhodogastria*, physiology, senses 1109
- Rhodogastria rubripes*, *Gymnanthera nitida*, Queensland 1393
- Rhodomatra saccharia*, *Emex australis*, South Africa 3608
- Rhodotorula*, *Cossonus rotundicollis*, interactions 8908
- Rhodotorula minuta*, *Cossonus rotundicollis*, interactions 8908
- Rhopalidae*, cotton, Africa 5884
- Rhopalocera*
biology 11262
behaviour 7410, 7597, 9297
environmental factors 11360
migration 5402
cereals, UK 8457
checklists, Arizona 3414
Chile 2357
conservation 6397-6398
distribution
Bahamas 2352
Caribbean 5384
German Democratic Republic 7438
Mexico 10362
Netherlands 7424
Queensland 2344
Switzerland 160
Tennessee 1183
UK 6471
USSR 141
diversity 3250
ecology 1172, 1823, 6392
distribution 5020
habitats 141
Europe, books 11262
evolution 9297
Florida 5402
books 8171
Formicidae, symbiosis 9297

Rhopalocera *cont.*
habitats, Spain 1823
herbicides, effects 8457
India 2705
Israel, books 7275
Italy 2360, 9335
Lavandula latifolia, pollination 9507
marking 3890
monitoring, traps 5402
morphology, legs 1049
phylogeny 1049
physiology, senses 7363
Platanthera huronensis, pollination 7889
populations, estimation 7424
predators 9988
Spain 1172, 9507, 11360
strawberries, pollination 2705
UK 6392, 6398
wheat, UK 7597
woodlands 9988

Rhopalomyia californica
Baccharis pilularis, galls 1287, 4597
California 4597
ecology, population dynamics 4597
parasitoids 1287, 4597

Rhopalosiphum insertum
apples, German Democratic Republic 542
biology, phenology 8443
German Democratic Republic 11123
Gramineae, UK 8443
monitoring, traps 11123

Rhopalosiphum maidis
barley 1445, 7600
India 3664, 5611
biology
migration 10579
reviews 1421
phenology 4676, 8443
biotypes 6272
Capsicum annuum 10852
cereals
New Zealand 10551
Syria 5596
USA 9552
USSR 1427
control 2635
insecticides 1445, 3664
ecology, population dynamics 406
food plants
India 3573
Queensland 1429
genetics 1129
karyotypes 9552
Gramineae
German Democratic Republic 10579
Spain 8454
UK 8443
insecticides, pathogenicity 11916
maize
America 6717
Egypt 406
Quebec 6714
resistance 8500
Taiwan 2635
monitoring, traps 4676, 10579
parasitoids 2612, 3573, 4921
pathogens, models 9523
physiology, enzymes 6272
plant pathogens 8454
transmission 1429, 1445, 5596, 6717, 7600, 9552, 10551, 10579, 10852
predators 1308, 6714, 11445
sorghum
Georgia 3774
Venezuela 4676
taxonomy 406, 6272, 8445

Rhopalosiphum nymphaeae
Nelumbium speciosum 3288
physiology
cardiovascular system 5310
secretions 3288

Rhopalosiphum padi
barley 1445, 5684, 7600
Europe 8071
Sweden 8472
biology 841, 3084, 3657, 5582, 5594, 8469

Rhopalosiphum padi *cont.*
biology *cont.*
behaviour 10959
environmental factors 5593, 8455
food preferences 5680
migration 749, 10579
phenology 4676, 8443
cereals 1428, 2605, 3084, 8471, 10550
Denmark 4616
Finland 9486
Italy 5582
New Zealand 10551
resistance 1431, 1446
Syria 5596
control 1440, 5582
biological control 4921
insecticides 1445, 3662, 8071
destruxin E, effects 7246
ecology, population dynamics 389, 406, 3399, 10577
field crops, Hungary 8446
food plants 841
China 749
Europe 5594
Finland 10577
Queensland 1429
UK 10959
genetics, gene flow 11530
German Democratic Republic 11123
Gramineae 5680
German Democratic Republic 10579
resistance 11529
Spain 8454, 10542
UK 8443
herbicides, effects 4628
host plants 11530
insecticides, pathogenicity 11916
maize
Egypt 406
France 2634
Quebec 6714
migrants, determination 4371
monitoring, traps 4676, 10579, 10959, 11123
morphology 841, 9183
natural enemies 841, 2617
oats 10576
Finland 1440
pathogens 4139, 11918
models 9523
plant pathogens 3084, 8454, 9486
transmission 1428-1429, 1443-1445, 2634, 5594, 5596, 5684, 7600, 9831, 10542, 10550-10551, 10576, 10579
models 8471
Poland 3399
pollutants, effects 3665
potatoes, Sweden 9831
predators 3532, 3552, 3662, 4616, 6115, 6714, 8472, 10577
reviews 5594
sorghum, Venezuela 4676
taxonomy 406
wheat
China 4921
Czechoslovakia 375
German Federal Republic 2617, 3662
Japan 3657
Poland 4628
resistance 11531
South Africa 8469
Spain 389
varietal susceptibility 10573

Rhopalosiphum pseudobrassicae (see *Lipaphis erysimi*)

Rhopalosiphum rufiabdominalis
biology, phenology 4676
monitoring, traps 4676
sorghum, Venezuela 4676

Rhopalotria mollis
biology 5941
Zamia furfuracea, pollination 5941

Rhopalus tigrinus
biology, phenology 335
Cruciferae, Pennsylvania 335
morphology 335

Rhopus, taxonomy 3509

Rhopus adustus
hosts, Pseudococcidae 3509
South Africa 3509
taxonomy, new species 3509

Rhopus geminus
hosts, *Nipaecoccus graminus* 3509
South Africa 3509
taxonomy, new species 3509

Rhopus notius
hosts, Pseudococcidae 3509
South Africa 3509
taxonomy, new species 3509

Rhopus urbanus
hosts, *Paracoccus burnerae* 3509
South Africa 3509
taxonomy, new species 3509

Rhubarb (*Rheum rhaponticum*)
Hypera rumicis 6629

Rhus, *Melaphis rhois* 10522

Rhus glabra, *Melaphis rhois*, galls 10522

Rhus javanica, *Toxoptera odinae*, Japan 1863

Rhus toxicodendron (see *Toxicodendron quercifolium*)

Rhyacia herculea (see *Ochropleura herculea*)

Rhyacionia
control, insecticides 10930
cultural methods, effects 10936
Pinus 11818
Pinus ponderosa, Nebraska 3003
Pinus taeda
Georgia 10930
USA 10936
sampling 11818

Rhyacionia buoliana
control, mating disruption 5934
distribution, Chile 10933
monitoring 7932
traps 5934
Pinus 10933
Italy 5934
Pinus radiata, Chile 1797, 10932
Pinus sylvestris, German Democratic Republic 7932

Rhyacionia buoliana milleri
biology 3971
morphology, developmental stages 3971
Pinus pinea 3971

Rhyacionia cibriani
Pinus hartwegii, Mexico 799
taxonomy, new species 799

Rhyacionia frustrana
Pinus, USA 10929
Pinus taeda, North Carolina 10931

Rhyacionia piniana
distribution, Norway 4392
Pinus sylvestris 4392

Rhyacionia rubigifasciola
Pinus oocarpa, Mexico 799
taxonomy, new species 799

Rhyacionia zozana
control, mating disruption 9976
forest trees, Oregon 9976
natural enemies 1866
parasitoids 9976
Pinus ponderosa, Oregon 1866

Rhyncaphytoptus platani
biology 5073
Platanus acerifolia, German Federal Republic 5073

Rhynchaenus
forest trees, Japan 2454
parasitoids 2454

Rhynchaenus mangiferae
control, insecticides 584
mangoes, India 584

Rhynchaenus populi (see *R. populicola*)

Rhynchaenus populicola
ecology, population dynamics 3989
parasitoids 3989
Salix cuspidata, German Federal Republic 3989

Rhynchaenus testaceus
Alnus 3031
distribution, UK 3031

Rhynchelytrum repens, *Achurum carinatum*, Florida 2669

Rhynchitidae
distribution, North Dakota 11393
taxonomy 3246

Rhynchophorinae, taxonomy 3246***Rhynchophorus cruentatus***

- diets 11618
- insecticides, toxicity 9911
- Palmae 9911
- rearing techniques 11618
- Sabal palmetto*, Florida 9911

Rhynchophorus ferrugineus

- coconuts, India 6782-6783, 9647
- control, integrated control 9647
- ectoparasites 6782

Rhynchophorus palmarum

- diets 11618
- rearing techniques 11618

Rhyncolus bhutanensis, *Larix*, Bhutan

8847

Rhyncolus incertus, *Picea*, wood, Bhutan

8847

Rhynocoris marginatus

- biology, behaviour 2478
- India 2478

Rhyparothesus bengalensis

- biology, behaviour 7741
- food plants, India 7741

Rhyparothesus sparsus

- biology, behaviour 7741
- food plants, India 7741

Rhyssomatus marginatus

- control, *Sesbania punicea* 1394
- South Africa 1394

Rhytidoponera

- biology, behaviour 1232
- New South Wales 1232

Rhytidoponera confusa, biology, behaviour

10395

Rhytidoponera mayri

- biology, behaviour 1232
- New South Wales 1232

Rhytirrhinus inaequalis

- biology 4575
- food plants, South Africa 4575

Rhyzbobius forestieri

- clementines, orchards, France 4790
- control, *Saissetia oleae* 4790
- hosts, *Coccus hesperidum* 4790

Rhyzbobius lophanthae

- biology, phenology 2751
- control, *Quadrastipidiotus perniciosus* 11433

- hosts, *Pseudaulacaspis pentagona* 2751
- peaches, orchards, Italy 2751

Rhyzopertha dominica

- barley
- commodities 11029
- Minnesota 11880

biology

- development 852
- environmental factors 5098
- reproduction 8943
- cereal grains 5091, 5098
- control 10033
- fumigants 4073, 11038
- heat treatment 8954
- insecticides 11032, 11034
- physical control 11021

diets 7976

- ecology, population dynamics 10033, 10035

feeds, tropics 852

forecasting 10035

fumigants, resistance 10118

fungicides, toxicity 6018

insecticides

- effects 3062
- toxicity 4069, 5091-5093

maize

- commodities 5092
- Mexico 10023

monitoring 4057, 10031

traps 5098, 11029

pheromones 10278

physiology

- cuticle 3297
- nutrition 7976
- sound production 10031

plant extracts, toxicity 4066, 6018

plant oils

- repellents 10032
- toxicity 6678

rearing techniques 6035

***Rhyzopertha dominica* cont.**

rice

- commodities 5093, 7106
- damage 7981
- sorghum, commodities 8943
- trees, fruits 11874
- wheat
- commodities 3062, 4057, 4066, 4073, 6018, 6035, 7976, 8954, 10031, 10033, 10035, 11032, 11034
- damage 7109
- Israel 11038
- Pakistan 11027
- resistance 11875
- varietal susceptibility 11883

Ribautodelphax

- Czechoslovakia 4405
- parasitoids 4405

Ribes, Cecidophyopsis ribis* 6455**Ribes cereum***, *Polygonia zephyrus*, Colorado 1548***Ribes grossularia* (see Gooseberries)*****Ribes grossularia* var. *uva-crispa* (see Gooseberries)*****Ribes inerme***, *Polygonia*, Colorado 1548***Ribes leptanthum***, *Polygonia progne*, Colorado 1548***Ribes nigrum* (see Black currants)*****Ribes rubrum* (see Red currants; White currants)*****Ricania speculum***

- morphology 6254
- Taiwan 6254

Ricania sublimbata

- biology 1577
- control 1577
- food plants, China 1577
- predators 1577

Ricania taeniata

- morphology 6254
- Taiwan 6254

Ricania zebra

- ectoparasites 1425
- sugarcane, India 1425

Ricaniidae

- morphology 6254
- parasitoids 9409
- Taiwan 6254

Rice (*Oryza sativa*)

- Acrididae, China 3685
- Afroryzophilus djibai*, Senegal 10613
- Aleurocybotus indicus*, varietal susceptibility 442
- Aphididae, Spain 8454
- arthropod pests 9116
- Africa 1011
- China 3693
- India 12021
- Italy 11635
- Philippines 5664
- predators 3693
- arthropods, ecology 5664
- Asia 3416
- attractants, *Sitophilus oryzae* 10037
- Auchenorrhyncha, India 5648
- bibliographies 9116
- Brevennia rehi* 2651
- Cecidomyiidae, India 3731
- Chilo agamemnon*, varietal susceptibility 1470
- Chilo suppressalis*
- damage 6729
- Iran 434, 3694
- Japan 7638
- resistance 7622

Chironomus kiiensis, Japan 452

Cicadellidae

- Malaysia 10627
- Philippines 5653

Cletus punctiger, Japan 2658*Cnaphalocrocis medinalis* 426, 5405, 6730

China 3690, 10614

damage 3710

Japan 3708-3709, 9587

resistance 1484, 1490, 3689, 4667, 7633, 11575

commodities

Coleoptera, India 4069

Corcyra cephalonica 7086**Rice cont.**

commodities cont.

- damage, determination 7981
- insect pests 855, 5091, 5093
- damage 7973, 7984
- Lasioderma serricorne* 7985
- Palembus dermestoides* 6026
- parboiling, effects 855
- pesticides, residues 10036
- Rhyzopertha dominica* 7981
- Sitophilus oryzae* 856, 5087
- Sitotroga cerealella*
- India 6038
- resistance 7974, 7987
- varietal susceptibility 1906
- stored products pests 7106
- Brazil 859

Delphacidae

- China 4513
- India 10626
- Indonesia 1463
- Japan 3704, 5643
- Korea Republic 3691
- resistance 7623, 7650
- Diatraea saccharalis* 10543
- Diadlaspia armigera* 5663
- India 5642
- yield losses 7647
- Echinocnemus squameus*, China 9579
- extracts, *Leptocoris acuta* 439
- fields

Araneae

- China 4660, 8510
- Korea Republic 3691
- beneficial arthropods
- India 8514
- Malaysia 10627
- beneficial insects, China 5640
- Braconidae, Queensland 7645
- Coccinellidae, India 7643
- Cyrtorhinus lividipennis*, India 2652
- Dryinidae, India 10626
- Encarsia*, West Africa 442
- Erigonidium graminicolum*, China 10629
- Halictophagus bipunctatus*, India 7654

Haplogonotopus atratus, Japan

1491

invertebrates, Japan 11571

Limnognathus fossarum, Philippines

5666

Lycosa pseudoannulata, Philippines

7641

Lycosidae, China 11556

Micraspis crocea, Philippines 445*Opius*, South America 1469*Paederus fuscipes*, China 3693,

5656, 8509

parasitoids

Japan 435

Puerto Rico 9596

Pardosa ramulosa, California 4672,

9593

Pipunculidae, Japan 5645

Platyaster oryzae, India 10610

predatory arthropods

India 4659

Indonesia 1463

Philippines 3701, 5664

predatory insects, China 2648

Theridion octomaculata, China

4663

Trichogramma, Cuba 428*Trichogramma japonicum* 2655

Gryllotalpidae, Brazil 4658

Hemiptera

China 11556

damage 3706, 7636

India 8514

Japan 1491

resistance, reviews 6725

Hesperiidae, Japan 6750

Hieroglyphus banian, India 3713

Homoptera 7635, 7644, 9600

India 2652, 7643

Philippines 3701, 10623

Hydrellia griseola

damage 7645

South America 1469

Hydronomidus molitor 11569

Rice cont.

insect pests

- Bhutan 7642
- California 4672, 9593
- China 4660, 4665, 7703, 8509
- control, insecticides 3696, 4603
- damage 1471
- India 1475, 1477-1478, 2644, 2653, 2657, 3687, 5641, 5654, 6736, 7648
- Indonesia 6722
- Japan 10628
- Malaysia 3663, 8505
- natural enemies 4665
- Pakistan 4604
- plant viruses, transmission 5672
- predators, evaluation 10617
- resistance 6737-6738, 7621, 9601
- Thailand 10612
- varietal susceptibility 5660-5661, 7649, 9598
- yield losses 2650, 4666
- assessment 11573

insecticides

- effects 5633, 6720-6721, 7580, 7617, 9577
- residues 1480, 3696, 4668, 4671, 5635, 8512, 10607, 11574
- toxicity 2044
- uptake 5634
- intercropping, soyabeans, pest control 1657

Laodelphax striatella

- Korea Republic 1474
- yield losses 2654

Lepidoptera 5647, 6460

- China 4662
- India 441
- Spain 1373

Leptispa pygmaea, India 10615*Leptocoris acuta*, Sri Lanka 439*Leptocoris oratorius*, India 6734, 7651, 11574*Leptocoris varicornis*, India 2647*Lissorhoptrus brevirostris*, damage 8507*Lissorhoptrus oryzophilus* 5652, 7581

- economic thresholds 9588, 11565

Japan 9586

varietal susceptibility 3695

Marasmia patnalis 10619

resistance 10616

Megarrhamphus bengalensis, Bangladesh 2649*Mythimna loreyi*, China 3654*Mythimna separata* 5668

damage 3702-3703

India 7653

Japan 5669-5670

Mythimna venalba, India 11566*Naranga aeneascens* 7637*Nephotettix* 3692

Indonesia 9581-9582

resistance 7640

Nephotettix cincticeps 7630, 10608

Japan 3705, 5645

resistance 5671, 7629

varietal susceptibility 1481

Nephotettix virescens 1460, 1465,

1468, 6739, 8504, 9584, 9599,

10609, 10618, 10622, 10625,

11567

India 7654

Indonesia 1464

outbreaks 425

Philippines 7634

resistance 1459, 1487, 6741, 9594,

10621

varietal susceptibility 438, 1482,

5659, 6739, 7593

Nezara viridula, Japan 2815*Nilaparvata lugens* 5671, 6723, 8506,

9589, 10617, 11563, 11578, 11581

Asia 10109

China 3697, 4663, 10629

India 422, 4659, 4661, 6726, 11570

Korea Republic 1473, 4670, 7618

outbreaks 4664

Philippines 445, 5666, 9580

resistance 448, 1485-1486, 1488,

7627-7628, 10630, 11558

Rice cont.*Nilaparvata lugens* cont.

Taiwan 2659

varietal susceptibility 451, 7619,

7632, 8513

Oebalus insularis

damage 5638

resistance 7620

Oebalus pugnax

Florida 5650

Texas 9597

Orseolia oryzae

Asia 450

India 423, 10610

outbreaks 3699

resistance 1483, 2643, 4657, 6724,

7625-7626

varietal susceptibility 437, 5658,

6732, 11561, 11568

Orseolia oryzivora, outbreaks 1476*Oxya yezoensis*, Japan 3711*Paraponyx stagnalis*, India 3712*Parnara guttatus*, damage 5651*Pelopidas mathias*, Philippines 6733

Pentatomidae, Puerto Rico 9595-9596

pest control 10212, 11267

Asia 4673

China 6728

conferences 2107

India 3696

information 4669

Malaysia 2660-2661

Philippines 6727

USSR 427

Zimbabwe 1600

pest resistance, crop production 11120

Philippines, reports 8185

plant extracts, effects 9600

pollen, food, *Micraspis crocea* 445*Pomacea*, damage 454*Pomacea canaliculata*

Japan 449

Philippines 10624

Pomacea lineata, Taiwan 453

Pyralidae

China 5639, 8503, 9592, 11559

food preferences 11580

India 2645

resistance 424, 1489

yield losses 7646

research, conferences 11267

Sarawak, reports 7299

Schizaphis graminum

USSR 8511

varietal susceptibility 2646

Scirpophaga

damage 440

resistance 5655

Scirpophaga incertulas 444, 2655,

5657

China 2648, 3686

damage 11562

India 1472, 3688, 5646, 5662,

11579

Philippines 446

Thailand 10611

varietal susceptibility 11576

yield losses 5665

Sogatella furcifera 431

China 1466

India 2656

Japan 7652

resistance 7624, 7631, 11572

varietal susceptibility 6735

Sogatodes, damage 433*Sogatodes orizicola*

economic thresholds 5637

resistance 5636

Spilosoma obliqua 2782*Spodoptera frugiperda* 429

Cuba 428

Spodoptera litura 9590*Spodoptera mauritia* 443, 7639

stem borers, yields 421

Stenchaetothrips biformis

India 3698

resistance 5667

varietal susceptibility 11577

Trigonotylus coelestialium, Japan 3707**Rice cont.**

viruses

vectors

Auchenorrhyncha 10212

insects 5672

wild plants, *Nilaparvata lugens*, resistance 448

yield losses, assessment 2650

Zulia entreriana, Brazil 4686**Rice beans** (see *Vigna umbellata*)**Rice black-streaked dwarf fivirus**

vectors

insect pests 11564

Laodelphax striatella 1474, 5612, 11557**Rice bunchy stunt virus**, vectors, insect pests 11564**Rice dwarf phytoeovirus**

vectors

Cicadellidae 875

insect pests 11564

Rice gall dwarf phytoeovirus, vectors, Cicadellidae 875**Rice giallume virus**, vectors, insect pests 11564**Rice grassy stunt tenuivirus**

vectors

insect pests 11564

Nilaparvata lugens 9580**Rice hoja blanca tenuivirus**, vectors, insect pests 11564**Rice ragged stunt fivirus**

vectors

insect pests 11564

Nilaparvata lugens 1461, 9580, 11563**Rice straw**, repellents, insects 8676**Rice stripe tenuivirus**, vectors, insect pests 11564**Rice transitory yellowing rhabdovirus**, vectors, insect pests 11564**Rice tungro bacilliform virus**

vectors

Cicadellidae 5653

insect pests 11564

Nephotettix 7616*Nephotettix virescens* 1460, 8504, 10618, 10621-10622**Rice tungro spherical virus**

vectors

Cicadellidae 5653

insect pests 11564

Nephotettix 7616*Nephotettix virescens* 1460, 8504, 10618, 10621-10622**Rice tungro virus**

vectors

Cicadellidae 10627

control, insecticides 9583

Nephotettix 7640, 9581-9582*Nephotettix virescens* 1464-1465, 1468, 2644, 9584, 9599,

10609, 10625, 11567

Rice yellow dwarf disease, vectors, *Nephotettix cincticeps* 10608**Rice yellow dwarf virus**, vectors, *Nephotettix virescens* 7593**Rice yellow mottle virus**, vectors, insect pests 11564**Ricin**, toxicity, insect pests 9105**Ricinine**, toxicity, *Costelytra zealandica* 11763**Ricinus communis***Achaea janata* 5868, 6216, 9862

India 1721, 8765

Acrosternum bellum 11721*Anacraga*, Brazil 2444control, *Pseudothinobatis rufinasus* 2625*Euproctis lunata*, India 9861

extracts

phagostimulants, *Achaea janata* 7411toxicity, *Costelytra zealandica* 11763

fields

parasitoids

Brazil 2444

India 8765

- Ricinus communis* cont.**
habitats
Phytoseiulus macropilis, California 9646
Telenomus remus 8370
Liriomyza 9739
Florida 6649
Noctuidae 3922
oils, effects, *Callosobruchus chinensis* 3082
pest control, Zimbabwe 1600
pollen, *Brinckochrysa scelestes* 11467
Retithrips syriacus, resistance 4813
Samia cynthia 3589
Samia cynthia ricini 2236, 6950
Spilosoma obliqua 7244
Spodoptera littoralis 1722, 3149-3150, 11159
Spodoptera litura 991, 6855, 7847, 8370, 10065, 11501, 11526
Tetranychidae 573
Tetranychus urticae, Egypt 4908
Trabala vishnou, India 9860
***Rickettsia*, *Varroa jacobsoni*, interactions 1262**
Rickettsiaceae
hosts
arthropods 6068
Drosophila simulans 4144
Rictichneumon pachymerus
hosts, *Panolis flammea* 7079
Pinus, forests, German Federal Republic 7079
Ridge gourd (see *Luffa acutangula*)
Rifampicin, effects, *Trichogramma* 10477
Riodinidae
distribution, India 7443
morphology, legs 1049
phylogeny 1049
Riodininae
morphology, legs 1049
phylogeny 1049
Ripcord (see Cypermethrin)
Riptortus
sorghum, Africa 3717
Vigna radiata, Sri Lanka 6888
Riptortus clavatus
biology, environmental factors 8002
legumes, Japan 6879, 8692
parasitoids 8692
songs 6879
soyabeans, commodities 8002
Riptortus linearis
physiology, digestion 4810
Vigna unguiculata 4810
Risbecoma capensis
ectoparasites 3514
Ivory Coast 3514
Risbecoma pigrae
ectoparasites 3514
Mimosa pigra, Ivory Coast 3514
taxonomy, new species 3514
Rivea hypocrateriformis
Asphondylia, galls 7567
Asphondylia riveae, galls 2576
Rivers
insecticides, residues 980, 3190, 6203, 9095
pesticides
pollutants, Europe 11223
residues 6202, 10150
Rivula
biology 2832
control
cultural control 4854
insecticides 6898-6899
natural enemies 8713
predators 6894
soyabeans, India 2832, 4854, 6894, 6898-6899, 8713
Roads, pollution, effects, crops, insects 8412
Roadside plants
habitats, predatory arthropods, Mississippi 9502
Noctuidae, Mississippi 9502
Roadsides, pests, Singapore 10887
Robinia pseudoacacia
Etiella zinckenella, Hungary 1662
forests, insects, Maryland 5915
insect pests, Maryland 5915
***Robinia pseudoacacia* cont.**
Megacyllene robiniae, Maryland 9959
Odontota dorsalis
damage 10985
Virginia 8889
Paradirpha 10690
pollen, diets, *Neoseiulus fallacis* 4497
Thyridopteryx ephemeraeformis, Virginia 4996
***Robinia viscosa*, *Acrosternum hilare*, Canada 7057**
Rodents
Geometridae, interactions 7033
prey
Carabidae 4493
Coleophora parthenica 11511
Rodolia cardinalis
Citrus
orchards
California 2767
Italy 9016
control, *Icerya purchasi* 2767, 9016
genetics 2767
prey, *Icerya purchasi* 5942
South Australia 5942
Rody (see Fenpropathrin)
Roeslerstammiidae, phylogeny 5
Rogas
hosts, *Parasa viridissima* 1542
Nigeria 1542
Rogas aligarhensis
biology, phenology 1743
cotton, fields, India 1743
hosts, *Pectinophora gossypiella* 1743
Rogas dimidiatus
cotton, fields, USSR 2904
hosts, *Agrotis segetum* 2904
Rogas nolophanae
biology, behaviour 5819
hosts, *Plathypena scabra* 5819
parasitoids 5819
soyabeans, fields, Kentucky 5819
Rogor (see Dimethoate)
Romalea guttata
Allium canadense 718
chemistry, endocrine system 10305
defence 718
diets 718
morphology, wings 4445
predators 718
***Romalea microptera* (see *R. guttata*)**
Romalinae, physiology, sense organs 6346
Romania
Aleurochiton pseudoplatani 2367
Aleyrodidae 2367
Aphis, parasitoids 3771
cereals, insect pests 4614
Coccoidea 7311
conifers, insects 6002
crops
arthropod pests 4570, 5174
pest control 4571-4573
pests, books 11249
Delia antiqua 2882
field crops, insecticides, effects 3195
hops, arthropod pests 3640
maize, insect pests 5629
Noctuidae 4381
Ostrinia nubilalis 4645-4646
parasitoids 5630
Quercus, Lepidoptera, parasitoids 2982
Scaptomyza pallida, pathogens 6257
Schizaphis graminum, predators 9540
Synergus dacianus 2140
Uroleucon doronici 9919
wheat, insect pests 5606
***Rondotia menciata*, pheromones 3781**
Root crops
arthropod pests, Africa 1011
insect pests, Finland 9486
Root vegetables, pest control, bibliographies 2082
Rootstocks, pest resistance 2110
Rorippa montana, Aphididae, China 749
Rosa
Apethymus serotinus, France 2972
Arge ochropus, Italy 4516
Epiblema rosaeolana, Spain 1756
Hishimonus sellatus, China 11657
Lepidoptera, Japan 5909
***Rosa* cont.**
Macrosiphum rosae, German Federal Republic 9918
Metopolophium dirhodum, UK 8443
Tetranychus urticae, Queensland 6995
***Rosa arizonica*, *Diplolepis*, galls 9915**
***Rosa canina*, insects, galls 2558**
***Rosa chinensis*, pollen, food, *Orius sauteri* 3532**
Rosaceae
Aphidinae, India 3436
Cynipidae, Spain 4988
insects, UK 9917
Macrolepidoptera, Hungary 8801
Papilio alexiares, Mexico 10896
pest control 778
Phyllonorycter, Italy 3776
Rose rosette disease, vectors, *Phyllocoptes fructiphilus* 10506
Roselle (*Hibiscus sabdariffa*)
commodities, *Spermophagus pygopubens*, India 11896
insect pests, India 8768
Rosemary (*Rosmarinus officinalis*)
Hemineura bigoti, Spain 8830
Roses
Aonidiella aurantii, India 781
Cynipidae, galls 839
Frankliniella occidentalis, South Africa 2940
Helicoverpa armigera 9920
Macrosiphum rosae, North America 786
Mylloceris rosae, India 2969
Panonychus ulmi 6991
pest control
New Zealand 11785
Sweden 3120
Phyllocoptes fructiphilus, USA 10506
Rhodobium porosum, German Democratic Republic 1753
Tetranychus urticae 6120
German Federal Republic 11787
***Rosmarinus officinalis* (see Rosemary)**
Rotenone
antifeedants, Coleoptera 4219
toxicity, *Heliothis virescens* 11978
***Rothmannia capensis*, *Quintalitus*, South Africa 10012**
Rothschildia orizaba
biology 3948
coffee, Costa Rica 3948, 4953
control, integrated control 4953
natural enemies 3948
parasitoids 4953
Rotifera
insect growth regulators, effects 2755
insecticides, effects 6172
Rovikurt, control, *Rheumaptera hastata* 5709
Row spacing, effects, soyabeans, insect pests 11723
Roxion (see Dimethoate)
Rubber plants (see *Hevea brasiliensis*)
(see also *Hevea brasiliensis*)
Rubidium
marking
Heliothis virescens 9356
Spodoptera exigua 9643
Rubus
Acia lineatifrons, South Africa 6788
biological control 10517
Sitobion fragariae, UK 8443
***Rubus fruticosus* (see also Blackberries)**
***Rubus idaeus* (see Raspberries)**
***Rubus* leaf mottle virus**, vectors, Aphididae 2706
***Rubus* leaf spot virus**, vectors, Aphididae 2706
***Rubus strigosus* (see Raspberries)**
Rugitermes niger, morphology, digestive system 1047
Rumex
Aulacorthum solani, Japan 5563
biological control 10517
Rumex crispus
biological control agents, evaluation 5575, 6629
Dichroplus elongatus 2403
Italy 5575
Papaipema nebris 9549

- Rumex hydrolapathum**, *Lycaena dispar* 1404
- Rumex obtusifolius**
Arachya menetriesii 7684
Graphiphora augur, UK 509
insects 5809
Tortricidae 8546
- Runcinia**, taxonomy 2358
- Russula**, *Pallodes* 600
- Rutabagas** (see *Swedes*)
- Rutaceae**
Papilio alexiars, Mexico 10896
Papilio demodocus 6457
Papilio glaucus × *P. pilumnus* 4003
- Rutelinae**, field crops, India 320
- Rutoside**, phagostimulants, *Carpophilus hemipterus* 8498
- Rwanda**, *Phthorimaea operculella* 8741
- Rye** (*Secale cereale*)
Abacarus hystrix, South Africa 9525
Agrotis ipsilon, Ontario 4168
commodities, Coleoptera, German Federal Republic 3049
fields, parasitoids, Brazil 5601
insect pests
New Zealand 10553
USSR 4615
Melanoplus sanguinipes 4440
Noctuidae, Brazil 5601
pest control, USSR 396
pest resistance 1442
pests, UK 10190
Schizaphis graminum, resistance 11582
- S-31183** (see 2-[1-Methyl-2-(4-phenoxyphenoxy)ethoxy]pyridine)
- S-399**, control, rice, insect pests 2644
- S-423**, control, rice, insect pests 2644
- S-71639**, effects, *Choristoneura fumiferana* 7234
- Sabah**, *Conopomorpha cramerella* 760
- Sabal palmetto**, *Rhynchophorus cruentatus*, Florida 9911
- Sabulodes caberata caberata**
biology 5953
Eucalyptus 5953
morphology 5953
- Sabulodes exhonorata**
biology 5953
Eucalyptus 5953
morphology 5953
- Sacbrood virus**, hosts, *Apis mellifera* 871
- Saccharicoccus sacchari**
pathogens 11938
taxonomy, synonyms 10546
- Saccharomyces cerevisiae**
insect attractants, mutagenicity 11651
insecticides, effects 7204
Locusta migratoria, interactions 11416
- Saccharosydne saccharivora**
biology 9522
Gramineae 9522
parasitoids 2497
plant pathogens, transmission 9522
tropics 2497
- Saccharum officinarum** (see *Sugarcane*)
- Saccharum spontaneum**
habitats, parasitoids, India 9527
Scirpophaga excerptalis, India 9527
- Sacchiphantes**
biology 9987
forest trees 9987
- Safflower** (*Carthamus tinctorius*)
Helicoverpa armigera 596
insect pests, resistance 7849
insecticides, residues 1724
Lixus juncii 6458
Noctuidae, Israel 2783
oils, mixtures, toxicity, *Plutella xylostella* 5783
Tephritidae, India 2692
Uroleucon carthami, India 2898
- Safflower oil**
synergism 2798
toxicity, *Sitophilus oryzae* 7110
- Safrole**
mixtures, effects, *Trichoplusia ni* 9049
synergism 6165
- Sago**, Sarawak, reports 7299
- Sahel**
Acrididae
books 7277
- Sahel** cont.
Acrididae cont.
reports 7300
Noctuidae, parasitoids 9521
Scarabaeidae 1369
- Sainfoin** (*Onobrychis viciifolia*)
Eurytoma onobrychidis, Alberta 5688
fields
Carabidae, Montana 1525
Pteromalus medicaginis, Alberta 5688
insect pests, Montana 1525
Leucoptera onobrychidella, Poland 3431
- St. Helena**, *Pseudococcus comstocki* 6460
- St. Lucia**, *Aceria guerreronis* 3759
- Saintpaulia**
Frankliniella occidentalis, Denmark 7901
Phytonemus pallidus, damage 11781
- Saintpaulia ionantha**
Frankliniella occidentalis, Denmark 773
insecticides, effects 9908
Scopula minorata ochroleucaria, damage 7892
- Saissetia coffeae**
biology 4780, 10782
Citrus, Cuba 9712
coffee, Cuba 10878
Crematogaster dohrni, interactions 3954
figs, Italy 3805
food plants, Chile 4780
honeydew, effects, *Choristoneura fumiferana* 4001
Iridomyrmex humilis, interactions 3805
natural enemies 3805
parasitoids 9712
Trichosanthes dioica 10782
- Saissetia hemisphaerica** (see *S. coffeae*)
- Saissetia lutea**, coconuts, Nigeria 2700
- Saissetia oleae**
biology 2763, 3820, 4780, 11671
Citrus, Israel 2763
clementines, France 4790
coffee, Cuba 10878
control 3820
biological control 3129, 4790
food plants, Chile 4780
growth regulators, effects 2763
Italy 3129
natural enemies 1589, 3805, 4780
olives 3820
California 1590
Cyprus 1589
Spain 11671
parasitoids 1590
- Saldubeta margaritifera**, *Dysoxylum gaudichaudianum*, Queensland 1875
- Salicaceae**
glycosides, hydrolysis, *Papilio glaucus* 788
Papilio glaucus 6661
- Salicin**
effects
Choristoneura conflictana 3027
Papilio glaucus 7952
- Salicornia**, *Metachroma*, damage 1524
- Salicortin**, effects, *Papilio glaucus* 7952, 10968
- Salicyclic acid**, mixtures, attractants, Scolytidae 2347
- Saligenin cyclic phosphates**, insecticidal properties 10121
- Salithion** (see *Dioxabenzofos*)
- Salix**
Aromia moschata, Italy 4516
Automeris zephyria, New Mexico 10983
Cryptocephalus cordiger, France 2348
Eupithecia sharronata, Canada 10245
forests, Entodoninae, Europe 4041
Heterarthrus microcephalus, Italy 3994
insect pests, Europe 4041
Limnitis weidemeyerii, Colorado 2314
Plagiodera versicolora
food preferences 5031
USA 3010
Polygonia hylas, Colorado 1548
- Salix** cont.
Smerinthus kindermanni, USSR 6013
Smerinthus ocellata 7039
Tetra guiyangensis, China 5947
Xyleborus alni, Czechoslovakia 5027
- Salix alba**
Chrysomela vigintipunctata, German Federal Republic 1848
Paranthrene diaphana, Yugoslavia 4252
Plagiodera erythroptera, Argentina 5946
Plagiodera versicolora, Maryland 9996
Rhabdophaga deletrix, Netherlands 4000
Yponomeuta rorellus, France 5066
- Salix arctica**, *Gynaephora groenlandica*, Canada 9953
- Salix babylonica**, *Lachnus salicis*, India 8878
- Salix babylonica** × *S. alba*, *Plagiodera erythroptera*, Argentina 5946
- Salix breviserrata**, *Pontania breviserratae*, Switzerland 4039
- Salix caprea**
Chrysomela vigintipunctata, German Federal Republic 1848
insects, pollination 7042
Panolis flammea 8156
Plagiodera versicolora, food preferences 5031
- Salix cinerea**
Euura mucronata
Finland 4046
galls 5038
- Salix cuspidata**, *Rhynchaenus populicola*, German Federal Republic 3989
- Salix erythroflexuosus**, *Plagiodera erythroptera*, Argentina 5946
- Salix exigua**, *Euura exiguae*, damage 5033
- Salix foetida**, *Pontania foetidae*, Europe 4039
- Salix fragilis**
Chrysomela vigintipunctata, German Federal Republic 1848
Laotloe populi 7039, 8891
- Salix helvetica**, *Pontania maculosa*, Europe 4039
- Salix humboldtiana**, *Plagiodera erythroptera*, Argentina 5946
- Salix humilis**, *Chrysomela knabi*, Virginia 8842
- Salix interior**, *Plagiodera versicolora*, USA 3034
- Salix lasiandra**, *Hippomelas jeanae*, California 3982
- Salix lasiolepis**
Euura lasiolepis
Arizona 4013
damage 5918
galls 4013, 4980
Phyllocolpa, Arizona 8919
Pontania, Arizona 4981
Pontania pacifica, galls 7958
Tenthredinidae, Arizona 4982
- Salix matsudana**, *Plagiodera versicolora*, food preferences 5031
- Salix nigra**
Chrysomela knabi 8842
Plagiodera versicolora, USA 3034
- Salix pentandra**, *Schizotetranychus schizopus*, British Columbia 7060
- Salix raldeana**, *Gonioctena decemnotata*, China 9941
- Salix repens**, insects, pollination 7042
- Salix silesiaca**, *Callisto coffeella*, Poland 3752
- Salix subfragilis**, *Schizotetranychus schizopus*, Japan 9947
- Salix tetrasperma**, *Lachnus salicis*, India 8878
- Salix triandra**, *Plagiodera versicolora*, food preferences 5031
- Salix viminalis**, *Chrysomela vigintipunctata*, German Federal Republic 1848
- Salix viminalis** × *S. fragilis*, *Plagiodera erythroptera*, Argentina 5946
- Salmalia malabarica** (see *Bombax malabaricum*)

Salmo clarki, prey, *Anabrus simplex* 7500
Salmo gairdneri
 commodities, *Dermestes maculatus* 6017
 prey, *Anabrus simplex* 7500
Salmo salar, insecticides, toxicity 8104
Salmo trutta, prey, *Anabrus simplex* 7500
Salmonella typhimurium, insecticides, mutagenicity 977
Salsola australis
 biological control 4590, 11511
 California 11511
Salsola richteri, *Chioneosoma peetzi*, USSR 4398
Saltatoria
 biogeography 9345
 distribution
 Italy 5416
 North America 9345
 Nepal 4412
 taxonomy 4412
Salticidae
 Australia 11289
 biology
 environmental factors 11438
 phenology 162
 Cape Verde 11386
 habitats, Florida 8379
 morphology 11386
 prey, *Lophocampa caryae* 8920
Prodiptosis platani, interactions 1868
 Saudi Arabia 11458
 South Africa 162
 taxonomy 11289, 11458
 USSR 11438
Salvadora, *Anacridium rubrispinum*, India 5052
Salvadora persica, oils, toxicity, wheat, commodities, insect pests 5099
Salvelinus fontinalis, insecticides, effects 2024, 11189
Salvia miltiorrhiza, *Pyrausta phoenicealis*, China 9509
Salvia pratensis
Isocolus verbenacus
 galls 7891
 Spain 7891
Salvia splendens, *Helicoverpa armigera*, damage 6997
Salvia verbenacea
Apina callisto, Australian Capital Territory 8421
Isocolus verbenacus
 galls 7891
 Spain 7891
Salvinia minima, *Neohydronomus affinis* 5556
Salvinia molesta
 Australian Northern Territory 1376
 biological control 1376, 8416
 biological control agents
 evaluation 330
 insecticides, effects 10507
 cover crops, control, rice, insect pests 6722
Cyrtobagous salviniae 7561
 Queensland 330
Samea multiplicalis, Queensland 6651
 Sri Lanka 8416
Sambucinol, mixtures, toxicity, Noctuidae 873
Sambucus
 Acari, damage 2694
Leptophyes punctatissima, UK 9984
Samea multiplicalis
 control, *Salvinia molesta*, evaluation 330
 physiology, metabolism 6651
Salvinia molesta, Queensland 6651
Sameodes albiguttalis
 biology 10519
 control, *Eichhornia crassipes* 10519
Samia cynthia
 physiology
 digestive system 5288, 6318
 membranes 5312
Samia cynthia ricini
 antibiotics, effects 6950
 biology, development 2174
 cocoons, weight 3589
 food plants 3589

Samia cynthia ricini cont.
 genetics
 nucleotide sequences 4555
 RNA 5348
 parasitoids 3126
 physiology
 endocrine system 1358
 enzymes 52, 3582
 immune response 285
 reproduction 2257
 silk glands 6950
 vitellins 3583
 water relations 2236
Ricinus communis 2236, 6950
Sampling
 Acari 5404
 Acrididae 10094
Acrobasis nuxvorella, pecans 4725
Acrolepiopsis assectella, leeks 7832
Acyrtosiphon kondoi, lucerne 2686
Acyrtosiphon pisum
 lucerne 6766
 peas 4851
 aerial insects, marine areas 2394
Antestiopsis, coffee 769
Anthonomus eugenii
Capsicum 9857
Capsicum annuum 9742
Anthonomus grandis 7866
Anticarsia gemmatilis, soyabeans 9806
Antigastra catalaunalis, sesame 11764
 Aphididae, lucerne 11607
Archips rosanus, fruit trees 532
 arthropod pests 4420, 8314
 ornamental plants 7893
 arthropods 1206, 10210
 forests 4026, 11817
 peaches 6824
Barbara colfaxiana, *Pseudotsuga menziesii* 10008
Busseola fusca, maize 4635
Campylomma verbasci, apples 5732, 8602
Chilo sacchariphagus, sugarcane 364
Cnaphalocrocis medinalis, rice 3690
Coptotermes formosanus, wood 2526
Dasynus piperis, *Piper nigrum* 10531
 Delphacidae, rice 3704
Deroceras reticulatum, pastures 309
Diabrotica, maize 9553
Elasmopalpus lignosellus, sorghum 2667
Empoasca fabae, lucerne 6771
Epilachna vigintioctomaculata, potatoes 5845
Epitrix cucumeris 6921
 Formicidae 3486
Frankliniella occidentalis, cotton 7868
Helicoverpa armigera
Cicer arietinum 10812
 cotton 2922
 tomatoes 11752
Helicoverpa zea, soyabeans 11724
 Hemiptera, *Gleditsia triacanthos* 10951
 Homoptera, cocoa 10875
Hypera postica, lucerne 4698
Hypothenemus hampei, coffee 768
 insect pests
 cotton 2903, 7867
 crops 2638
 soil 4612
 soyabeans 1657
 sweet potatoes 7827
 insecticides, drift 3038
 insects
 cereal grains 11040
 cocoa 759
 field crops 2393, 6242
 lentils 5805
Pseudotsuga menziesii 6003
 reviews 6447
Ips typographus, *Picea abies* 2991
 Lepidoptera, cabbages 4835
Leptinotarsa decemlineata, potatoes 8746
Leucinodes orbonalis, aubergines 734
Listronotus bonariensis, pastures 2673
Lygus hesperus, lentils 7792
Lygus lineolaris, strawberries 9651
Lymantria dispar, forest trees 10013
 Melolonthinae, sugarcane 3646

Sampling cont.
Mononychellus tanajoa, cassava 713
Mylabris pustulata, *Cajanus cajan* 6904
Neoseiulus cucumeris, greenhouses 3862
Nephotettix cincticeps, rice 7630
Nezara viridula, tomatoes 3916
 Noctuidae, oats 5608
Oebalus pugnax, rice 5650
Orseolia oryzae, rice 423
Otiorynchus ligustici, lucerne 10651
Panonychus ulmi
 apples 4748, 5731
 grapes 4722
Papaipema nebris 8494
Pectinophora gossypiella, cotton 3926
Pemphigus populitransversus, *Brassica* 4826
Phenacoccus manihoti, cassava 710
Scapteriscus 6499
 Scarabaeoidea 8316
Sitodiplosis mosellana, cereals 9535
 soil, invertebrates 1348
Spodoptera frugiperda, maize 2637
 stored products pests 11018
 Tenebrionidae, *Cicer arietinum* 7811
Tetranychus urticae, cotton 745
Thrips tabaci, garlic 11749
Tipula, grasslands 11595
 Tortricidae, *Pinus* 11818
Varroa jacobsoni 10474
Zeuzera coffeae, grapes 4718
Sancassania ultima
 control
Meloidogyne 3964
 Nematoda 11786
 greenhouses, German Federal Republic 3964
 Nematoda, cultures, German Federal Republic 1318
 ornamental plants, habitats, German Federal Republic 11786
 prey, *Meloidogyne* 1318
 taxonomy, new species 1318
Sand
 control, *Callosobruchus chinensis* 8932
 insecticides, extraction 11985
Sand pine (see *Pinus clausa*)
Sanguisorba officinalis, litter, food, *Fol-somia candida* 5354
Santolina chamaecyparissus, oils, insects, repellents 7574
Saperda calcarata
 fungi, interactions 5939
 physiology, nutrition 5939
Populus 5939
Saperda carcharias
 control 5966
Populus, Italy 5966
Saperda populnea
 biology 10909
 control
 insecticides 10909
 microbial pesticides 1870
 forest trees, China 1870
Populus, Korea Republic 10909
Saperda scalaris
 biology 9995
 ecology 9995
Quercus, Poland 9995
Sapindus saponaria var. *drummondii*, *Jadera haematoloma*, Oklahoma 5950
Sapium biglandulosum
 forests, *Lochitoencyrtus gahani*, Brazil 1880
Neolithus fasciatus, galls 1880
Sapodillas (*Manilkara achras*)
Anastrepha serpentina, Venezuela 4771
Nephopterix eugraphella, India 11673
 Thysanoptera, pollination 6845
Saponins
 antifeedants
 arthropods 10990
Tenebrio molitor 4700
Saporin, toxicity, insect pests 9105
Sarasinula plebeia
 control 640
 diets 312

- Sarasinula plebeia** *cont.*
Phaseolus vulgaris, Central America 640
 rearing techniques 312
- Sarawak**, agriculture, reports 7299
- Sarcophaga bullata** (see *Neobellieria bullata*)
- Sarcophaga houghi**, hosts, *Malacosoma disstria* 5049
- Sarcophagidae**
Ammi visnaga, habitats, California 6642
 forests, USSR 1802
 habitats, Poland 5069
 hosts, *Yponomeuta padellus* 5069
 insecticides, effects 1802
- Sarcopolia illoba**
 lucerne, Japan 1535
 pathogens 1535
- Sardinia**
Bryobia cavalloroi 11517
 crops, arthropod pests 11620
 Curculionioidea 11387
- Sargentia greggii**, attractants, *Anastrepha ludens* 10715
- Sarotherodon mossambicus** (see *Tilapia mossambica*)
- Sarson** (*Brassica campestris* var. *sarson*)
 insecticides, residues 606
- Sarucallis kahawaluokalani**
Lawsonia inermis, India 10894
 morphology 10894
- Sassafras albidum**, *Popillia japonica* 11820
- Satellite imagery**, *Schistocerca gregaria*, detection 8320
- Sathon** (see also *Apanteles*)
 taxonomy 2456
- Sathon eugeni** (see *Apanteles eugeni*)
- Sathon falcatus** (see *Apanteles falcatus*)
- Sathon lateralis** (see *Apanteles lateralis*)
- Sathon papilioniae**
 hosts, *Papilio zelicaon* 2456
 taxonomy, new species 2456
- Saturnia pyri**
 almonds 1825
 morphology 1825
- Saturniidae**
 distribution, Spain 6218
 physiology, enzymes 2198
- Satyridae**
 biology
 fecundity 2307
 reproduction 4368
 Chile 2357
 distribution
 British Columbia 10361
 Switzerland 159
- Satyrinae**, taxonomy 5253
- Saudi Arabia**
 Bombyliidae 145
 Coccoidea 1831
 Coleoptera 174
Encarsia arabica 3499
 Formicidae 193
 invertebrates, surveys 11955
 Isopoda 11390
 Lepidoptera 144
 Neuroptera 230
 Nitidulidae 143
Palarus 232
 Psychidae 2963
 Salticidae 11458
Schistocerca gregaria 4441
 Tenebrionidae 11391
 Thomisidae 11457
- Savannas**
Hodotermes mossambicus, South Africa 6751
 Isoptera
 Africa 5509
 Ghana 2522
- Scaeva latimaculata**
 Indian mustard, fields, India 2810, 6873
 parasitoids 6873
 prey, Aphididae 2810
- Scaeva pyrastris**
 biology 9763
 prey, *Brevicoryne brassicae* 9763
- Scaeva selenitica**
 Jordan 1828
 prey, *Cinara cupressi* 1828
- Scale insects** (see Coccoidea)
- Scambus planatus**
 hosts, *Cydia* 1530
Vicia sativa, habitats, UK 1530
- Scandinavia**
 Carabidae 4391
 Cerambycidae 11264
 greenhouse crops, arthropod pests 6170
Ips typographus 11836, 11854
Rhopalosiphum padi 5594
- Scaphoideus**
 India 3223
 taxonomy 3223
- Scaphoideus littoralis** (see *S. titanus*)
- Scaphoideus titanus**
 grapes, Italy 2712
 plant diseases 2712
 plant pathogens, transmission 10680
- Scaphotettix**
 India 3223
 taxonomy 3223
- Scapteriscus**
 control, biological control 5159
 Florida 5159, 6499
 predators 2446
 sampling 6499
 South America 2446
- Scapteriscus abbreviatus**
 control 1519
 lawns and turf, Florida 1519
 natural enemies 1519
- Scapteriscus aetetus**
 control 1519
 lawns and turf, Florida 1519
 natural enemies 1519
 pathogens 10079
 predators 2491
 songs 2491
 South America 2491
 Uruguay 10079
- Scapteriscus borellii**
 nematophagous fungi, interactions 1936
 pathogens 1936
- Scapteriscus didactylus**
 biology, phenology 4658
 crops, Brazil 4658
- Scapteriscus imitatus**
 biology, phenology 4658
 crops, Brazil 4658
- Scapteriscus tenuis**
 biology, behaviour 4373
 pathogens 4373
- Scapteriscus vicinus**
 control 1519
 grasses, Florida 6761
 lawns and turf, Florida 1519
 natural enemies 1519
 parasitoids 3501
 pathogens 5107, 6761, 10079
 predators 2491
 songs 2491
 South America 2491
 Uruguay 10079
- Scaptomyza**
 hosts, *Bostryx conspersus* 1371
 India 7
 Madagascar 11703
- Scaptomyza exilis**
Crinum, Madagascar 11703
 taxonomy, new species 11703
- Scaptomyza mateolata**
 Cucurbitaceae, Mauritius 11703
 taxonomy, new species 11703
- Scaptomyza nigrita**
 biology 6662
Cardamine cordifolia, Colorado 6662, 7707
 control, insecticides 7707
- Scaptomyza pallida**
 pathogens 6257
 Romania 6257
- Scarabaeidae**
 attractants 11495
 bee houses, South Africa 10475
 biology 1005, 6501
 behaviour 1368-1369
 catalogues 9123
 cereals, Africa 2591
- Scarabaeidae cont.**
 collections 6249
 control 1005, 3647, 6501
 insecticides 4869, 10788
 microbial pesticides 5164
 crops, India 6501
 ecology
 population dynamics 320
 water relations 2330
 ectoparasites 4533
 field crops, India 320
 groundnuts, China 4869
 India 2338
 insecticides, effects 10095
 Kenya 2330
 monitoring, traps 11495
 morphology 2145
 natural enemies 3647
 Niger 7469
 pathogens 3645
Phaseolus vulgaris, Kenya 10788
 plants, UK 10095
 pollen loads, determination 1196
 predators 2338
 prey, *Apis mellifera* 10475
 Reunion 3645
 Sahel 1369
 sampling 4612
 soil
 interactions 7469
 Queensland 4612
 South Africa 11495
 Spain 1196
 sugarcane, India 3647
 taxonomy 2145
 Turkey 1005, 2145
 Vietnam 4533
- Scarabaeinae**
 distribution, Argentina 7430
 soil, Mediterranean countries 5382
- Scarabaeoidea**
 biology, phenology 8398
 dung, Spain 8398
 faeces 8316
 monitoring, traps 8316
 morphology 2164
 natural enemies 2461
 sampling 8316
- Scarabaeus**
 Africa 5459
 ectoparasites 5459
 morphology 2145
 taxonomy 2145
 Turkey 2145
- Scarabaeus convexus**
 Africa 5459
 ectoparasites 5459
- Scarabaeus gangeticus**
 Africa 5459
 ectoparasites 5459
- Scarabaeus semipunctatus**
 ectoparasites 5459
 Italy 5459
 morphology 2145
 taxonomy 2145
 Turkey 2145
- Scarites planus**
 ecology 1554
 orchards, USSR 1554
- Scatopsidae**
 distribution, British Isles 2349
 taxonomy 5252
- Scelio**, hosts, Acrididae 3469
- Scelio pakistanicus**
 hosts, *Aiolopus thalassinus* 2404
 Pakistan 2404
 taxonomy, new species 2404
- Scelio zafari**
 hosts, *Aiolopus thalassinus* 2404
 Pakistan 2404
 taxonomy, new species 2404
- Scelionodes cordalis**, pheromones 5299
- Scelionidae**
 control, insect pests 4152
 reviews 4152
- Sceliotrachelinae**
 America 5491
 biology 5491
 taxonomy 5491
- Scenopinidae**
 Palaearctic Region, books 5232

- Scenopinidae** cont.
taxonomy 5232
- Scepticus**, morphology 1044
- Schedorhinotermes malaccensis** (see *Rhinotermes malaccensis*)
- Scheffera venulosa**, extracts, repellents, *Plutella xylostella* 7579
- Schenocharpus**
China 5782
hosts, *Diaphania indica* 5782
- Schinia mitis**
parasitoids 8425
Texas 8425
- Schinus terebinthifolius**
Megastigmus transvaalensis, USA 11800
Myllocerus menoni, India 2969
- Schismus arabicus**, Formicidae 4458
- Schistocerca**
cell cultures 1099
physiology, nervous system 1099
- Schistocerca americana**
biology, behaviour 6422
physiology
development 5422
endocrine system 7371
muscles 6325
- Schistocerca cancellata**
Argentina 11415
outbreaks, models 11415
- Schistocerca ceratiola**
biology 11381
Ceratiola ericoides, Florida 11381
- Schistocerca gregaria**
Africa 4441
antifeedants 5225
Asia 5412
biology
environmental factors 1219, 5412
migration 4441, 7284
Caribbean, conferences 1016
cell cultures 1099
cell lines 3216
cereals, Africa 2590
control, insecticides 188
distribution 1219
genetics, cytogenetics 1133
habitats, India 3480
India 8320, 12021
insecticides
effects 3173
pathogenicity 4099
Mali 188
man, allergies 7470
morphology
cuticle 1215
epithelium, cells 9190
nervous system 1213, 9184
pathogens 1216, 4446
peptides, effects 6509
physiology 6509
cuticle 184
development 3268, 5421
digestive system 3299
endocrine system 1114, 9259
enzymes 1061
inhibitors 6368
excretory system 6321-6323
flight 4304, 11304
immune response 5307
muscles 2239, 3477, 10322
nervous system 1099, 3173, 3216, 3279, 3310-3312, 3470, 5323, 6341, 8245, 10287-10288, 10296, 11321
neuropeptides 9225
senses 4328, 10302
plant extracts, toxicity 11042
radiation, effects 10322
remote sensing 8320
Saudi Arabia 4441
Tetramorium caespitum, venoms, effects 2230
Yemen Arab Republic 1216
- Schistocerca nitens**, physiology, acid base equilibrium 2235
- Schizachyrium scoparium**
Conioscinella nuda, Oklahoma 5678
insects, Kansas 8528
- Schizaphis graminum**
barley 7600, 10578
- Schizaphis graminum** cont.
barley cont.
interactions 7677
Romania 4614
biology 1148, 5679, 8469
behaviour 8517, 10578, 11532
diapause 1147
environmental factors 5593
migration, reviews 1421
biotypes 367, 1148, 2609, 4617, 5679, 6272, 6383, 11582
cereals 1428, 10550, 10976, 11532
resistance 1977, 2609, 11582
Syria 5596
USSR 1427
varietal susceptibility 367
control
biological control 4921
cultural control 4614
insecticides 2618, 2665, 8511
microbial pesticides 3125
fertilizers, effects 1506, 8521
field crops, USSR 2646
food plants 5679
genetics, DNA 6383
gramine, antifeedants 5609
Gramineae, Spain 8454
grasses, Washington 10635
insecticides
effects 2015
pathogenicity 11916
parasitoids 257, 2612, 6122
pathogens, models 9523
pest resistance, models 1977
physiology
enzymes 2015, 6272
excretion 10976
plant pathogens 8454
transmission 1428, 5596, 7600, 7604, 10550
predators 3552, 5675, 6115, 9540
rearing techniques 5679
rice, USSR 8511
sorghum 8521
Georgia 3774
resistance 1505-1507, 4674, 5675, 8517
Texas 2665
Sorghum sudanense 7604
taxonomy 6272, 8445
triticale, varietal susceptibility 4617
Triticum, resistance 7595
USSR 3125
wheat
Chile 367
China 4921
resistance 1436
Romania 9540
South Africa 8469
USSR 2618
- Schizolachnus pineti**, parasitoids 7506
- Schizonycha affinis**, sugarcane, South Africa 1422
- Schizoprymnus**
Italy 9405
taxonomy 9405
- Schizoprymnus longiseta**
distribution, Italy 9405
hosts, *Curculio elephas* 9405
taxonomy 9405
- Schizotetranychus cercidiphylli**
biology, diapause 9947
Cercidiphyllum japonicum, Japan 9947
- Schizotetranychus leguminosus**
biology, diapause 9947
Wisteria floribunda, Japan 9947
- Schizotetranychus pruni** (see *Eotetranychus pruni*)
- Schizotetranychus schizopus**
biology, diapause 9947
Salix pentandra, British Columbia 7060
Salix subfragilis, Japan 9947
- Schizotus pecticornis**
ecology 5032
forest trees, Poland 5032
- Schleichera oleosa**, *Leptocoris augur*, India 10956
- Schneidereria pistaciicola**, pistachios, USSR 4726
- Schoenobius incertulas** (see *Scirpophaga incertulas*)
- Schomburgkia tibicinis**, insect pests, Mexico 1754
- Schoutedenia bougainvilleae**, taxonomy, synonyms, of *Schoutedenia ralumensis* 4253
- Schoutedenia ralumensis**, taxonomy, synonyms, *Schoutedenia bougainvilleae* 4253
- Schoutedeniini**, taxonomy 4253
- Schwiebea**, tyres, South Africa 8318
- Schyzops intermedius**
Phragmites karka, Pakistan 2588
taxonomy, new species 2588
- Sciaridae**
fire, effects 7670
fungi 4817
grasslands, Utah 7670
monitoring, traps 7670
mushrooms 11689
New Zealand 4385
taxonomy 5252
- Sciomyzidae**
distribution
Norway 4393
Spain 4404
morphology 10254
- Scirpophaga**, rice, Bhutan 7646
- Scirpophaga excerptalis**
control, insecticides 9529
ecology, mortality 9527
Gramineae, India 9527
parasitoids 9527
pathogens 3094
sugarcane, India 9529
- Scirpophaga incertulas**
biology 5655
behaviour 1467, 1472
environmental factors 5657, 5662, 9592
phenology 3396, 3686, 11579
reproduction 2645
China 3396
control
cultural control 3687, 7648
insecticides 2644, 3688, 5639, 5646, 7649, 8503, 10611, 11559
ecology
environmental factors 1475
population dynamics 444, 446, 11559
fertilizers, effects 2653, 7648
forecasting 1472
fungicides, toxicity 3714
growth regulators, effects 2071, 11177
insecticides, toxicity 432, 6740
models 444, 446, 5665
monitoring, traps 1472, 3686, 9592, 11559
parasitoids 2655
pathogens 3094, 5647
pheromones 1467, 3686
physiology, development 11177
plant extracts, toxicity 7578
predators 2648
rearing techniques 5657, 11576
rice 444, 2655, 5647, 5657
Bangladesh 11562
China 424, 1489, 2648, 3686, 5639, 8503, 9592, 11559
India 441, 1472, 1475, 1477, 2644-2645, 2653, 3687-3688, 5646, 5661-5662, 7648-7649, 11573, 11579
Malaysia 3663
Pakistan 440, 5655
Philippines 446, 5665
resistance 7621
Thailand 10611
varietal susceptibility 11576
- Scirpophaga innotata**
biology 5655
control, insecticides 7649
rice
India 441, 7649
Pakistan 440, 5655
- Scirpophaga nivella**, sugarcane, Indonesia 10547
- Scirpus chuanus**, *Macrosteles purpurata*, China 1605

- Scymnus** *cont.*
 prey *cont.*
 potatoes, insect pests 9827
 wheat, fields, Brazil 3656
- Scymnus gracilis**
 India 7031
 prey, *Heteropsylla cubana* 7031
- Scymnus hoffmanni**
 biology 3928
 phenology 4498
 China 4498
 prey, *Aphis gossypii* 3928
- Scymnus louisianae**
 prey, *Aphis gossypii* 4915
Solenopsis invicta, interactions 4915
- Scymnus morelletii**
 habitats, South Africa 5796
 prey, Aphididae 5796
- Scymnus posticalis**
 Japan 1863
 prey, *Toxoptera odinae* 1863
- Sea water**
 insecticides
 degradation 3198
 determination 978
 residues 4204, 9091, 9093-9094, 9096
- Secale cereale** (see Rye)
- Secondary metabolites**, effects, Lepidoptera 6424
- Securinea virosa**, *Afromerus florinoxus*, South Africa 11829
- Sedges**, *Perkinsiella saccharicida* 6456
- Sediment**
 insecticides
 determination 978
 residues 6787, 7920, 8133, 11766
- Sedimentation**, determination 6206
- Sedum telephium**, *Yponomeuta virginipunctatus*, Netherlands 10504
- Seedox** (see Bendiocarb)
- Seeds**, commodities, pest control 11056
- Selandriinae**
 biology 7589
 cereals, Poland 7589
- Selenaspis articulatus**
 Citrus, Cuba 9712
 control, insecticides 9715
 ecology, distribution 10729
 natural enemies 9715
 oranges
 Brazil 9715
 Cuba 10729
 parasitoids 9446, 9712
- Selenisa suroides**
 irrigation systems, damage 7489
 legumes, Florida 7489
- Selenocephalus**
 Europe 9178
 morphology 9178
 taxonomy 9178
- Selenocephalus conspersus** group
 Europe 9178
 morphology 9178
 taxonomy 9178
- Semanotus japonicus**
 biology, environmental factors 9943, 10995
Cryptomeria japonica, Japan 9943
 forest trees, Japan 10995
- Semanotus laurasi**
 control 1871
Thuja, France 1871
- Semanotus sinoauster** (see *S. bifasciatus sinoauster*)
- Semerone** (see Desmetryn)
- Semerone 25**, effects, *Diaeretiella rapae* 1618
- Semiadalia undecimnotata** (see *Hippodamia oculata*)
- Seminars** (see Conferences)
- Semiochemicals**
 attractants, Scolytidae 7046
 books 1002
 detection 3007
 effects, Lepidoptera 6424
 Formicidae 10396
 formulations, controlled release 10188
Glabromicroplitis croceipes 2438
 insect pests 4238
 pest control 4218, 6132
- Semiochemicals** *cont.*
 Scolytidae 3007, 11851
- Semiothisa cinerearia**
 China 9422
 parasitoids 9422
- Semisulcospira libertina**, predators 8402
- Senecio anomus**, *Neacoryphus bicrucis*, Georgia 11505
- Senecio jacobaea**
 biological control 8417
 California 8417
 extracts, effects, *Peridroma saucia* 333
Longitarsus jacobaeae 4576
Tyria jacobaeae 10512
 interactions 6637
 UK 3624, 6637
- Senecio madagascariensis**
 biological control agents, evaluation 9490
 insects, Madagascar 9490
- Senecio mikanioides**, *Danaus plexippus*, California 8427
- Senecio vulgaris**, *Myzus persicae* 10976
- Senegal**
 Acrididae 7300
Afroryzophilus djibai 10613
Aleurocybotus indicus 442
Coniesta ignefusalis 9576
Eurystylus marginatus 457
 field crops, insect pests 3684
 groundnuts, insect pests 1671
 man, insecticides, effects 4195
 Meloidae 3720
Nisotra, pathogens 5104
Senna, *Phoebeis sennae*, Chile 2578
- Sennius cupreatus**
Melanoxylon braunea, Brazil 3083
 taxonomy, new species 3083
- Sennius spodiogaster**
Melanoxylon braunea, Brazil 3083
 taxonomy, new species 3083
- Senotainia tricuspidis**
 Albania 259
 hosts, *Apis mellifera* 259
- Senses**, arthropods, conferences 11260
- Sepiolite**, insecticides, adsorption 986
- Serangium parcesetosum**
 biology, behaviour 2759
 Citrus, orchards, Pakistan 2759
 prey, *Aleurocanthus woglumi* 2759
- Sericothrips variabilis**
 control 1639
 insecticides 3940
 cotton, Louisiana 3940
Phaseolus vulgaris, Virginia 1639
- Sericotrupes niger**
 biology, phenology 8398
 dung, Spain 8398
- Sericulture**
 India, reviews 10494
 mulberries, cultivation 3591
- Serine**, kairomones, *Ascogaster reticulata* 234
- Serinetha augur** (see *Leptocoris augur*)
- Serratia**, hosts, *Aulonum ruficorne* 9938
- Serratia liquefaciens**
 control, antibiotics 1963
 hosts, insects 1963
- Serratia marcescens**
 enzymes 6058
 hosts
 Anastrepha obliqua 10067
 Cossus cadambae 1799
 Metaseiulus occidentalis 4543
 Nilaparvata lugens 6731
- Serricornin** (see 7-Hydroxy-4,6-dimethyl-3-nonanone)
- Sesame** (*Sesamum indicum*)
Alocypha bimaculata, Africa 6457
Antigastra catalaunalis
 India 6951, 8766, 11764-11765
 varietal susceptibility 7848
 arthropod pests, Korea Republic 1720
 extracts, toxicity, *Leucocoprinus gongylophorus* 11425
 fields
 Braconidae, India 8766
 Diadegma, India 11765
 Hishimonus sellatus, China 11657
 insect pests
 Iraq 1723
- Sesame** *cont.*
 insect pests *cont.*
 plant pathogens, transmission 1723
 insecticides, residues 2897
 Lygaeidae, India 7741
 Spilosoma obliqua 595, 2782
 Spodoptera litura, India 6952
- Sesame oil**
 attractants, *Trogoderma granarium* 4424
 control, *Callosobruchus chinensis* 8932
 effects
 Aphis craccivora 6887
 Callosobruchus chinensis 3082
 Callosobruchus maculatus 6047
 toxicity
 Sitophilus oryzae 7110
 Sitophilus zeamais 7102
 Vigna mungo 6887
- Sesamia**
 maize, resistance 8500
 parasitoids 3533
- Sesamia calamistis**
 control 1509
 diets 10384
 distribution 1509
 ecology 1509
 maize
 Ivory Coast 10594
 Syria 4652
 morphology, larvae 10594
 pathogens 6745
 rearing techniques 10384
 sorghum
 Africa 3717
 Kenya 6745
 West Africa 1509
 taxonomy 10594
- Sesamia cretica**
 control 6687
 sorghum
 Africa 3717
 Syria 4652
 sugarcane, Sudan 6687
- Sesamia inferens**
 biology, development 2627
 food plants 2627
 parasitoids 6561
 pathogens 3094, 5647, 6079, 7142
 rice 5647
 India 441
- Sesamia nonagrioides**
 Cape Verde 907, 3133
 control
 biological control 907
 integrated control 3133
 crops, Cape Verde 151
 Italy 3097
 maize 10601
 Greece 408, 8481
 Syria 4652
 parasitoids 8481
 pathogens 3097
 pheromones 408
 plant extracts, toxicity 10601
- Sesamia penniseti**
 control 1509
 distribution 1509
 ecology 1509
 sorghum, West Africa 1509
- Sesamia poephaga**
 control 1509
 distribution 1509
 ecology 1509
 sorghum, West Africa 1509
- Sesamia uniformis**, rice, India 441
- Sesamin**, synergism 10106
- Sesamol**, synergism 10106
- Sesamum indicum** (see Sesame)
- Sesbania aculeata**
 commodities, *Bruchophagus mellipes* 870, 11898
 pesticides, effects 1523
Spilosoma obliqua, India 1647
- Sesbania aegyptica** (see *S. sesban*)
- Sesbania drummondii**, *Eudiagogus pulcher*, Texas 7553
- Sesbania exaltata**
Anticarsia gemmatilis 11683
Aphis craccivora, Georgia 3774

- Sesbania grandiflora**, *Ceroplastodes*, India 7685
- Sesbania macrocarpa**, *Eudiagogus*, Texas 7553
- Sesbania punicea**
biological control 1394
biological control agents, evaluation 1394
South Africa 1394
- Sesbania sesban**
Ceroplastodes, India 7685
wood, *Psammotermes hybostoma*, damage 3067
- Sesbania vesicaria**, *Eudiagogus*, Texas 7553
- Seseli**, *Dysaphis viennoti*, Iran 10663
- Sesia apiformis**
morphology, sense organs 6281
parasitoids 4516
Populus, Italy 4516
- Sesia spartani**
attractants 14
Populus tremuloides, Michigan 14
Sesia tibialis, differentiation 14
taxonomy, new species 14
- Sesia tibialis**, *Sesia spartani*, differentiation 14
- Sesiidae**
crops, Spain 1373
distribution, Austria 3432
Europe 5251
food plants 3432
Hungary 6314
morphology 5251
pheromones 6314
taxonomy 5251
- Setaria faberi**, *Papaipema nebris* 9549
- Setaria italica** (see Foxtail millet)
- Setcreasea purpurea**, *Trichoplusia ni* 7762
- Sethoxydim**, nontarget effects, *Neoapectana feltiae* 11940
- Setobates**
distribution, Australia 6251
taxonomy 6251
- Seudonol**
pheromones, *Dendroctonus pseudotsugae* 74
synthesis 74
- Sevimol** (see Carbaryl)
- Sevin** (see Carbaryl)
- Sevisulf** (see Carbaryl, with sulfur)
- Sevithion** (see Carbaryl, with parathion-methyl)
- Sewage sludge**, insecticides, residues 5214
- Sex pheromones**
degradation 3290, 6305
evaporation, determination 9208
formulations 11545
synthesis 1085, 4309, 11309
reviews 1089
Adoxophyes 8797
Adoxophyes orana 6803
Agrotis segetum 4417, 8231, 8540
Amorbia cuneana 4310
Amyelois transitella 1161
Anastrepha ludens 10715
Anastrepha suspensa 6781, 7350
Antheraea 2223
Antheraea polyphemus 2224, 10280
Anthonomus grandis 65, 6542
Anthrenus verbasci 1895
Aonidiella aurantii 3293, 5172
Arctiidae 1084
Argyrotaenia velutinana 7344
Ascogaster reticulata 9901
Autographa gamma 7680
Bactrocera cucurbitae 2217
Bactrocera oleae 577
Bagrada hilaris 10774
Batrachedra pinicolella 2225
Bemisia tabaci 9301
Bombyx mori 3331, 5304
Bruchidius atrolineatus 1087
Cacoecimorpha pronubana 64, 8237
Campylomma verbasci 8587
Choristoneura 8225
Choristoneura occidentalis 8884-8885
Chrysodeixis chalcites 1088, 2220
Chrysoteuchia topiaria 8529
Cotinis nitida 7352
Croesia curvalana 2707
- Sex pheromones cont.**
Ctenopseustis 7351
Cydia 7727
Cydia caryana 7719
Cydia molesta 1077, 2226, 7734
Cydia nigricana 7798
Cydia pomonella 545, 555, 3794, 6309-6311, 7239, 7241, 9684
Cydia strobilella 10007
Cylas formicarius 10834
Danaus gilippus 3337
Diabrotica virgifera 11545
Diprionidae 2216
Drosophila melanogaster 70
Dysdercus cingulatus 5373
Dysdercus koenigii 11368
Ephesia cautella 7988, 8946-8947
Epinotia tedella 3024
Epiphyas postvittana 9311
Erthesina fullo 7069
Etiella zinckenella 1662
Eucoxia sonomana 10928
Geometridae 10277
Glabromicroplitis croceipes 1298
Harrisina brillians 5713
Helicoverpa armigera 1078, 6307, 6434
Helicoverpa zea 69, 2221, 3292, 6312
Heliothis peltigera 2783
Heliothis subflexa 8554
Heliothis virescens 2918, 3290, 8235
Heterocera 6304, 7369, 10273, 11846
Homadula anisocentra 6313
Hydraecia micacea 913
Hyphantria cunea 2227, 7242
insect pests 4238
insects 1002, 4218
reviews 3294
Keiferia lycopersicella 726
Lacanobia suasa 2254, 7347
Lepidoptera 2944, 3959, 4309, 5299, 6117, 6305-6306, 6314, 6424, 8241, 8774, 9208, 9879, 10276
genetic engineering 3137
Leucoptera malifoliella 8598
Lobesia botrana 2715, 9205
Mamestra brassicae 6303, 8274
Manduca sexta 8234
mites 71
Mocis latipes 2672
Nezara viridula 7346
Noctuidae 914, 3291, 5882, 8709
Ochroleuca fennica 9209
Orygia postica 1204
Orygia pseudotsugata 4312
Ostrinia 10590
Ostrinia furnacalis 3673
synthesis 3668
Ostrinia nubilalis 66, 3667, 8232, 8238
Panolis flammea 3026
Pectinophora gossypiella 2218, 6435-6436, 6976
Phragmatobia fuliginosa 10279
Phthorimaea operculella 2870, 7349
Pityogenes chalcographus 8835
Pityophthorus pityographus 8907
Planotortrix excessana 61
Plutella xylostella 9767
Popillia japonica 11309
Prays citri 9723
Pseudaulacaspis pentagona 8627
Pseudococcus comstocki 529
Pyrharctia isabella 85
Quadraspidiotus perniciosus 11310-11311
Reticulitermes flavipes 10483
Rondotia menciata 3781
Scirpophaga incertulas 1467, 3686
Scolytidae 1377
separation 6308
Sesamia nonagrioides 408
Sesiidae 8834
Sitophilus oryzae 62
Sitotroga cerealella 7093
Solenopsis invicta 9204
Spilosoma obliqua 5301
Spodoptera exempta 409
Spodoptera exigua 1082, 9843, 10275, 10839
Spodoptera littoralis 2219, 7345
Spodoptera litura 5171, 11722
Synanthedon 10691
- Sex pheromones cont.**
Synanthedon tipuliformis 8560
Tenebrio molitor 9237
Thaumetopoea pityocampa 2211, 8239, 8872, 11308
Thyridopteryx ephemeraeformis 5300
Tortricidae 2228, 5996, 10274
Tribolium castaneum 11375
Trichoplusia ni 7348
Trogoderma 6302
Trypodendron lineatum 2990
Xestia c-nigrum 7455
Yponomeuta malinellus 7736
Zeiraphera 3023
- Sex-ratio Spiroplasma**, hosts, *Drosophila melanogaster* 7317
- Seychelles**
Aphididae 10226
Icerya seychellarum 1570
- Shachongsuang** (see Thiosulfuric acid S,S'-[2-(dimethylamino)-1,3-propanediyl] ester disodium salt; Thiosulfuric acid S,S'-[2-(dimethylamino)-1,3-propanediyl] ester disodium salt))
- Shade trees**
insect pests, books 8827
Rastrococcus invadens, Togo 563
- Shallots** (*Allium ascalonicum*)
Spodoptera exigua 594, 5854
Thrips tabaci, Taiwan 11749
- Sheep dung**, Hydrophilidae, North America 7306
- Shirakiacris shirakii**
ecology, population dynamics 3469
Pakistan 3469
parasitoids 3469
- Shivaphis celticola**, distribution, India 2967
- Shorea robusta**
Antheraea mylitta, India 10986
Nyphasia apicalis, India 1816
- Shortleaf pine** (see *Pinus echinata*)
- Shrews**, prey, *Lymantria dispar* 5043
- Shrimps**, insecticides, effects 2039
- Shrubs**
Acari, Australasia 7909
Archips podanus, USSR 2725
arthropod pests, Czechoslovakia 837
arthropods, Netherlands 3145
Coccoidea, Romania 7311
habitats, parasitoids, Brazil 5021
Hemiptera, USSR 4028
insect pests
Brazil 5021
galls 5021
plant extracts, effects 5234
Poland 5067
insecticides, residues 3205
insects, America 8912
Merobruchus, America 3249
Quadraspidiotus perniciosus 6454
- Sialis lutaria**, morphology, spermatozoa 3255
- Siberian larch** (see *Larix sibirica*)
- Sicily**
Arytainilla barbagalloi 11515
crops, arthropod pests 11655
- Sicus**
hosts, Apidae 9395
Switzerland 9395
- Sida**, *Fossispa lutena*, Central America 4678
- Sida acuta**, *Fossispa lutena*, Central America 4678
- Sida cordifolia**, *Amrasca devastans*, varietal susceptibility 7875
- Sideris pallens**, Poland 4408
- Sierra Leone**, *Maliarpha separatella*, parasitoids 11560
- Sigmophora**
hosts, *Asphondylia riveae* 2576
India 2576
- Signiphora**, hosts, *Coccophagus* 10463
- Signiphora flavella**
avocados, orchards, Queensland 7743
control, *Hemiberlesia lataniae* 7743
- Signiphora perpauca**
avocados, orchards, Queensland 7743
control, *Hemiberlesia lataniae* 7743
- Signiphoridae**, taxonomy 6255
- Silage**, Histiotomatidae, Hungary 7966

- Silba adipata*, figs 4772
Silene brachiuca, extracts, growth regulators, arthropod pests 987
Silene conoidea, *Helicoverpa armigera*, India 9820
Silene maritima, *Pegomya*, UK 5464
Silica
 effects, *Ostrinia furnacalis* 10358
 toxicity, *Sitophilus granarius* 6033
Silica aerogel, toxicity, Coleoptera 5080
Silk, *Dermestes ater*, India 7084
Silkworms, harvesters 1370
Silliana lhommei
 biology 2981
Phillyrea latifolia, Italy 2981
Silpha
 forests, Hungary 5017
 prey, *Lymantria dispar* 5017
Silphidae
 biology 1005
 control 1005
 habitats, German Democratic Republic 10470
 soil, Italy 2983
 Turkey 1005
Silver fir (see *Abies alba*)
Silver nitrate
 effects
 pyrethrins 7575
Tanacetum cinerariifolium 7575
Silviella, taxonomy 2146
Silviella acutipenne
 biology 2146
 food plants, Chile 2146
 taxonomy, from *Eurymetopum* 2146
Silviella nudatum
 biology 2146
 food plants, Chile 2146
 taxonomy, from *Eurymetopum* 2146
Silviella pehuen
 biology 2146
 food plants, Chile 2146
 taxonomy, new species 2146
Silybum marianum
 Australia 5552
 biological control agents, evaluation 5552
 invertebrates, New South Wales 2572
Simazine, nontarget effects, *Pterostichus* 9444
Simetryn, residues, lakes 5217
Similipepsis takizawai
Betula, Japan 9148
 taxonomy, new species 9148
Simmondsia chinensis (see Jojoba)
Simuliidae, insecticides, effects 11190
Sinacus, taxonomy, new genus 5948
Sinacus erythrophlei
Erythrophleum fordii, China 5948
 taxonomy, new species 5948
Sinapic acid, oviposition deterrents, *Delia radicum* 8675
Sinapis alba (see White mustard)
Sinapis arvensis, *Pieris*, UK 9530
Sinapis nigra, *Athalia lugens* 10761
Sinea rileyi, physiology, water relations 2470
Singapore
 amenity and recreation areas, pests 10887
Brassica, insect pests, parasitoids 7775
 entomology, reports 5248
Neocollyris 2775
Singhiella bicolor, parasitoids 3498
Sinigrin
 antifeedants, *Locusta migratoria* 9067
 phagostimulants, *Ceutorhynchus constrictus* 7774
Sinipta dalmani, genetics, chromosomes 1130
Sinohorus turionus
 biology 11609
 hosts, *Ostrinia nubilalis* 11609
 maize, fields, Italy 11609
Sinokele, taxonomy, new genus 5961
Sinokele mirabilis
Pinus, China 5961
 taxonomy, new species 5961
Sinoxylon
Dalbergia sissoo, India 1378
 parasitoids 1378
Sinoxylon anale
 forest trees, India 1862
 parasitoids 1862
Sipha elegans, grasses, Washington 10635
Sipha flava
 biology 3724
 biotypes 6272
 control 3724
 physiology, enzymes 6272
 sorghum
 Texas 10632
 varietal susceptibility 10633
 Venezuela 3724
 taxonomy 6272, 8445
Siphoninus, parasitoids 3498
Siphoninus phillyreae
 control, biological control 8914
 distribution, Bulgaria 2367
 food plants, California 8914
Sipylodea sipylus, physiology, endocrine system 9250
SIR-8514 (see Triflumuron)
Sirex
Amylostereum, interactions 6264
 conifers 6264
Picea abies, wood, damage 8955-8956
 taxonomy 6264
Sirex cyaneus
 forest trees, UK 9983
 predators 9983
Sirex juvenis
 forest trees, UK 9983
Pinus, USSR 5074
 predators 9983
Sirex noctilio
Amylostereum areolatum, symbiosis 10937
 control, biological control 10937
 distribution, Canary Islands 11395
 forest trees, UK 9983
Pinus radiata, Victoria 10937
 predators 9983
Siricidae
 distribution, Norway 1192
 forest trees, Czechoslovakia 4012
 forests, German Federal Republic 1818
 parasitoids 4012
 taxonomy 1192
Siricoidea, food plants, Norway 1192
Sisymbrium altissimum, *Rhopalus tigrinus*, Pennsylvania 335
Sisyphus
 morphology 2145
 taxonomy 2145
 Turkey 2145
Sisyphus militaris, pastures, Australasia 11596
Sisyridae, distribution, Saudi Arabia 230
Sitka spruce (see *Picea sitchensis*)
Sitobion akebiae
 biology 3657
 wheat, Japan 3657
Sitobion avenae
 barley 1445, 7600
 Romania 4614
 biology 392, 5582
 development 8458, 10256, 10258
 environmental factors 2608, 4377
 migration 10562, 10579
 phenology 8443, 8459
 cereals 10550
 Denmark 4616
 Italy 2604, 5582
 Syria 5596
 Chile 6109
 China 5183
 control 5582
 biological control 6109
 cultural control 4614
 insecticides 388, 1445, 3662, 4627, 5602, 5605, 8459
 integrated control 4160
Dactylis glomerata, UK 6663
 ecology, population dynamics 389, 1433, 3399, 6439, 9364
 food plants, India 3573
 forecasting 3661, 8459
 genetics 1129
 gene flow 11530
 German Democratic Republic 28, 11123
Sitobion avenae cont.
 Gramineae
 German Democratic Republic 10579
 Spain 8454, 10542
 UK 8443
 grasses, Washington 10635
 herbicides, effects 4628
 host plants 11530
 insecticides
 pathogenicity 11916
 resistance 5183
 maize
 France 2634
 Quebec 6714
 models 28, 390
 monitoring, traps 10579, 11123
 natural enemies 2617
 oats 10576
 food preferences 9544
 parasitoids 392, 3573, 6109, 10561, 11440
 pathogens 2604, 11910
 models 9523
 physiology, development 28
 plant diseases, interactions 2608
 plant extracts, toxicity 1413
 plant pathogens 8454, 8465
 transmission 1445, 2634, 5596, 7600, 10542, 10550, 10576, 10579
 Poland 3399
 predators 1433, 3516, 3661-3662, 4616, 6714, 8470
 wheat 8458
 China 4627, 10562
 Czechoslovakia 375
 Finland 9536
 German Democratic Republic 388, 390, 9364
 German Federal Republic 1433, 2608, 2617, 3662, 4160, 4631
 Pakistan 5605
 Poland 2606-2607, 4628, 4630
 resistance 1437, 2620, 8467, 11531
 Spain 389
 UK 5602, 8459, 8470, 10561
 USSR 3661
 varietal susceptibility 1438, 8465
Sitobion fragariae
 biology, phenology 8443
 cereals, New Zealand 10551
Dactylis glomerata, UK 6663
 distribution, Jordan 5392
 genetics
 gene flow 11530
 karyotypes 10637
 Gramineae, UK 8443
 grasses, Australia 10637
 host plants 11530
 physiology, enzymes 9655
 plant pathogens, transmission 10551
 taxonomy 9655
Sitobion miscanthi
 genetics, karyotypes 10637
 Gramineae, India 3648
 grasses, Australia 10637
 parasitoids 3648
Sitodiplosis mosellana
 biology 3653, 5582, 9534
 behaviour 9535
 determination 5604
 diapause 2610
 cereals
 Finland 9535
 Italy 5582
 control 5582
 insecticides 9536
 parasitoids 6705
 rearing techniques 2610
 sampling 9535
 wheat
 China 3653
 Finland 9536
 Japan 9534
 Saskatchewan 2610, 6705
Sitona
 control 1440
 biological control 9014
 insecticides 1511
 food plants, UK 1511

- Sitona** *cont.*
insecticides, effects 10095
lucerne 9014
Australia 6768
morphology 1044
plants, UK 10095
Vicia faba, Finland 1440
- Sitona discoides**
biological control agents, evaluation 6770
biology 9641
behaviour 9641
control
biological control 2685
insecticides 1531
ecology, climatic factors 6770
lucerne
Australia 2685
New Zealand 1531, 6770, 9641, 10654
parasitoids 9641
- Sitona hispidulus**
control, insecticides 2684
lucerne, Kentucky 2684, 11610
- Sitona lepidus**
Trifolium repens
UK 5692
varietal susceptibility 3745
- Sitona lineatus**
biology 2678
food plants 2678
lucerne, Idaho 2678
peas, France 1645, 10793
- Sitophilus**
biology 1897
maize
commodities 8944
resistance 8500
repellents 8944
- Sitophilus granarius**
antifeedants 4219
biology 6039
control
fumigants 1004, 4073
impaction 5086
insecticides
effects 8931
pathogenicity 6032
resistance 8949
toxicity 3148, 6033, 6868, 8949, 9353
morphology 6039
parasitoids 2503, 4487
pheromones 1086
physiology, cuticle 3297
plant extracts, toxicity 3147-3148
plant oils, toxicity 6678
stored products, German Federal Republic 3049
wheat
commodities 4073, 4487, 6032-6033
damage 7109
- Sitophilus oryzae**
attractants 1086, 10037
biology 6039
behaviour 5096, 11031
development 856
environmental factors 5098
reproduction 8943
cashews, commodities 867
cereal grains 5087, 5098
Australia 7978
Brazil 859
varietal susceptibility 3060
control, insecticides 11034
detection 4058
fumigants, toxicity 845
fungicides, toxicity 6018
genetics, enzymes 8925
insecticides
effects 3062
resistance 7978, 8949
toxicity 4069, 5087, 5092-5093, 7174, 7984, 8949, 11881
maize
commodities 5092, 5096
resistance 8953
monitoring, traps 5098, 10037
morphology 6039
parasitoids 6023
pathogens 7967
- Sitophilus oryzae** *cont.*
pheromones 62, 73, 4052
physiology
cuticle 3297
enzymes 4061-4062
plant extracts
antifeedants 430
effects 4061-4062
toxicity 1415, 3166, 4066, 6018, 6675, 7087, 7098, 7110, 10027
plant oils
effects 5097
toxicity 6678
rearing techniques 1203
rice
commodities 855-856, 5093, 7106
damage 7973, 7984
Sitotroga cerealella, interactions 11031
sorghum
commodities 8943, 11031
varietal susceptibility 10039
stored products 7087
German Federal Republic 3049
India 7967
symbionts, DNA 1056
wheat
commodities 3062, 4058, 4066, 5097, 6018, 7098, 7110, 11034, 11881
damage 7109
Pakistan 11027
resistance 11875, 11879
varietal susceptibility 11883
- Sitophilus zeamais**
acorns, Georgia 8829
attractants 1086
biology
behaviour 6030
development 5088, 6031
cereal grains 7982
distribution, Hungary 7982
ecology, population dynamics 3052
genetics, genes, enzymes 5090
insecticides
effects 11886
resistance 8952
toxicity 5092, 11030
maize
commodities 4065, 5092, 8952, 10028, 11030, 11886
damage 3053
Georgia 3052
Mexico 10023
resistance 5095, 6030-6031, 8953
Togo 3054
varietal susceptibility 5088, 7983, 10040
morphology, larvae 7982
parasitoids 3052
pheromones 73, 4052
physiology
cuticle 3297
enzymes 5090
plant extracts
effects 4065, 7983
toxicity 7087, 10028
plant oils, toxicity 7102
plants, extracts, effects 4151
stored products 7087
China 10019
symbionts, DNA 1056
wheat, commodities 7102
- (4S,5R)-Sitophinone**, attractants, *Sitophilus oryzae* 10037
- β -Sitosterol**, effects, *Tribolium castaneum* 7099
- Sitosterols** (see Phytosterols)
- Sitotroga cerealella**
biology
behaviour 11031
development 7096
cashews, commodities 867
cereal grains, Iraq 6043
ecology, population dynamics 3052
eggs, storage 170
insecticides, toxicity 7984, 8951
maize
commodities 7096
Georgia 3052
Mexico 10023
- Sitotroga cerealella** *cont.*
maize *cont.*
commodities *cont.*
resistance 8953
varietal susceptibility 3059
monitoring, traps 6038
Oryza, commodities, resistance 7987
parasitoids 170, 400, 2513, 2929, 4736, 8339, 11754
pathogens 8984
pheromones 7093
predators 7986, 9417
rice
commodities 7106
damage 7973, 7984
India 6038
resistance 7974
varietal susceptibility 1906
Sitophilus oryzae, interactions 11031
sorghum
commodities 11031
varietal susceptibility 10039
stored products, China 10019
wheat
commodities 8951
India 11028
varietal susceptibility 11882
- Sitta carolinensis**, insecticides, effects 10130
- Sitta europaea**, prey, *Lymantria dispar* 1170
- SJ-53-Fch** (see Ethyl 11-chloro-3,7,11-trimethyl-2(E)-dodecanoate)
- SK-102**, synergism 10112
- Slash pine** (see *Pinus elliotii*)
- Slavum wertheimae**
Israel 5921
Pistacia atlantica, galls 5921
- Sludges**, effects, arthropods, reviews 6445
- Slugs** (see also Gastropoda)
biology, environmental factors 304
cabbages, UK 612
cereals, UK 371
control, molluscicides 371
forecasting 304
France 315
potatoes, UK 704
predators 9396
soyabeans, damage 5821
UK 304
vegetables, USSR 6226
- Small fruits**
Acari
damage 2694
Switzerland 5700
arthropod pests 9110
monitoring 10186
bibliographies 9110
pest control
conferences 10186
Switzerland 5699-5705, 5707-5708, 5723
USSR 484
Washington 5698
viruses, vectors, arthropods 5703
- Small mammals**, insecticides, effects 817
- Smerinthus kindermanni orbata**
biology 6013
forest trees, USSR 6013
- Smerinthus ocellata**
biology 8891
environmental factors 7039
Salix 7039
- Smicronyx**, *Striga* 9489
- Smicronyx albovariegatus**
control, *Striga hermonthica*, evaluation 9489
Ethiopia 9489
- Smicronyx fulvus**
morphology 4909
physiology
reproduction 4909
sound production 10255
sunflowers 4909, 10255
- Smicronyx sordidus**
physiology, sound production 10255
sunflowers 10255
- Smicronyx umbrinus**, *Striga* 9489
- Sminthurus viridis**
control, insecticides 1511
food plants, UK 1511

Sminthurus viridis cont.
lucerne, Australia 6768
Trifolium repens, varietal susceptibility 3745

Smite, control, *Panonychus citri* 2772

Smithistrum abdita
Indiana 7475
taxonomy, new species 7475

Snails (see also Gastropoda)
biology 7268
control 7776, 10495
ecology 11571
Israel 10495
morphology, mouthparts 9186
physiology, metabolism 8407
predators 9401
rape, German Federal Republic 7776
rice, fields, Japan 11571
Taiwan 9186
vegetables, Egypt 10747

Snap beans (see *Phaseolus vulgaris*)

Snow, insecticides, residues 8140

Soaps
control
Aspidiotus destructor 10666
Choristoneura fumiferana 7939
insect pests 3120
ornamental plants, arthropod pests 9923
Stephanitis pyrioides 8814
toxicity, Hymenoptera 10458

Sobemoviruses, vectors, Coleoptera 8006

Social insects
biology
behaviour 6437
books 10189
reviews 8286
conferences 10217
ecology, population dynamics 9352
evolution 4499-4500, 10189
mites, interactions, reviews 7515
stings 4499-4500
trapping 2402

Sodium fluoroacetate, toxicity, invertebrates 8124

Sodium fluosilicate, control, *Hodotermes mossambicus* 2670, 6751

Sodium hexafluorosilicate, control, *Hodotermes mossambicus* 11601

Sodium pentachlorophenate, toxicity, *Deroceras reticulatum* 2551

Sodium pentachlorophenol
toxicity
Arachnida 4203
Coleoptera 2997

Sodium sesquicarbonate, effects, Coleoptera 11886

Sogatella
taxonomy 7310
synonyms, *Sogatodes* 7310

Sogatella furcifera
Asia 10104
bacteria, symbiosis 3104
biology 436
behaviour 3691
development 7419
migration 5643, 11374
phenology 1466
biotypes 6735
control 2661
biological control 7703
cultural control 2656, 7648
insecticides 7649
integrated control 5641
East China Sea 2394
ecology, population dynamics 2652, 7422
fertilizers, effects 7648
insecticides
antifeedants 431
resistance 7652
toxicity 10104
Japan 7422
monitoring, traps 10623, 11374
natural enemies 1463, 8514
parasitoids 436, 10626
plant extracts, effects 3700
predators 2652, 3691, 7643, 8509, 10612
rice 431
China 1466, 7703

Sogatella furcifera cont.

rice cont.
India 2652, 2656-2657, 5641, 6735-6736, 7631, 7643, 7648-7649, 8514, 10626
Indonesia 1463
Japan 5643, 7652
Korea Republic 3691
Malaysia 2661
Philippines 10623
resistance 6725, 7623-7624, 7650, 9601, 11572
Thailand 10612
sampling 2394
Sogatodes pusanus, differentiation 447
symbionts, antimicrobial properties 3104
Taiwan 11374

Sogatella kolophon
Australia 9409
parasitoids 9409

Sogatella longifurcifera
plant pathogens, transmission 1461
taxonomy, synonyms, of *Sogatella vibis* 7310

Sogatella orizicola, pathogens 1479

Sogatella vibis, taxonomy, synonyms, *Sogatella longifurcifera* 7310

Sogatellana, taxonomy 7310

Sogatodes, taxonomy, synonyms, of *Sogatella* 7310

Sogatodes cubanus
rice, Trinidad and Tobago 433
taxonomy, to *Tagosodes* 7310

Sogatodes orizicola (see also *Tagosodes orizicolus*)
rice
Colombia 5636
Cuba 5637
resistance 6725
Trinidad and Tobago 433
taxonomy, to *Tagosodes* 7310

Sogatodes pusanus
biology 447
Echinocloa 447
natural enemies 1463
rice, Indonesia 1463
Sogatella furcifera, differentiation 447
taxonomy, to *Tagosodes* 7310

Sogatox (see Metolcarb, with lindane)

Soil
Achipteria 9325
algae, carbofuran, effects 6726
Ancistrotermes cavithorax, Ivory Coast 10486
arthropod pests
control, cultural control 9026
Hungary 9026
arthropods
Colorado 10639
Egypt 1731
India 7934
mineralization 5407
New Mexico 9323
Bacillus thuringiensis, extraction 6057
carbofuran, movement 10817
Coleoptera, Italy 2983
Collembola, Spain 4383
compaction, effects, slugs 3659
Coptotermes formosanus 9458
Diabrotica 9557
Diabrotica undecimpunctata 9559
effects
Beauveria bassiana 11944
entomophilic nematodes 11943
insecticides, toxicity 12006
Elateridae, Poland 2298
entomogenous fungi, recovery 5136
forests
Collembola
Hungary 7016
Korea Republic 8881
growth regulators, residues 7919
insect growth regulators, degradation 8144
insect pests, Queensland 4612
insecticides
adsorption 986, 8139, 8143, 11231
degradation 603, 4205, 5208, 6205, 6207, 7219, 7222, 7225, 9097, 9099, 9567, 11218, 11222

Soil cont.

insecticides cont.
distribution 6485
effects 7218
extraction 11985
leaching 3196
microbial degradation 2068
movement 2054, 2070, 8138, 11221
reviews 9092
persistence 2063, 4624
residues 1480, 2058, 2066, 2840, 3200, 3202, 3205, 3445, 4201, 4210, 4671, 5211, 5213, 5216, 6186, 7207, 7226, 7843, 7920, 8142, 8892, 9062, 9085, 9770, 11138, 11225, 11228, 11233, 11598, 11742, 11760, 11762, 11766, 12007
runoff 6191
sorption 2004
volatilization 2069

insects
control 8269
pathogens 5164
Finland 6099

invertebrates
Brazil 1859
China 5048
collection 7449
Egypt 10747
Italy 5408
Kansas 7449
Mediterranean countries 5382
Peru 8922
sampling 1348
tropics 1348
Isoptera, interactions 5512, 5522, 5914
Magicicada, Kentucky 8923
microbial pesticides, persistence 10069
microorganisms
insecticides, effects 2041, 2046, 9068, 10123
pesticides, effects 6809
Microtermes, Nigeria 5507
mites
Egypt 324
Georgia 10353
Mexico 9330
Odontotermes formosanus 5411
Oniscus asellus, interactions 1858
pesticides
degradation 2020
effects 7220
persistence 11234
removal 2067
residues 8135-8137
sorption 9101
Pogonomyrmex rugosus, interactions 2430
pyrethroid insecticides, persistence 3780
Scarabaeidae, interactions 7469
Setobates, South Australia 6251
Teleogryllus commodus, New Zealand 467
Tenebrionidae, USSR 9286
Tydeidae, Egypt 2788

Soil arthropods
agricultural chemicals, nontarget effects, reviews 4202
barley, fields, German Federal Republic 2623
biology, behaviour 8269
Cryptomeria japonica, plantations, Japan 7030
earthworms, interactions 8538
ecology 6445, 7015, 9330
habitats 9322
population dynamics 3402
forests, North Carolina 7015
habitats, Pennsylvania 8538
insecticides, effects 7957
Korea Republic 7427
New Mexico 9322
North Carolina 2601
organic wastes, effects, reviews 6445
pesticides, effects 2623
tillage, effects 2601

Soil fauna
Africa 1165, 1364
characterization 1165
East Africa 1365

- Soil fauna** *cont.*
insecticides, effects 7957
- Soil flora**, insecticides, effects 4211
- Soil insects**, plants, interactions 10095
- Soil invertebrates**
Africa 1349
heavy metals
effects 10018
reviews 10155
taxonomy 1349
- Soil sterilization**, fumigants 11118
- Soilgard** (*see* Chlorpyrifos)
- Solanaceae**
Aculops lycopersici 6457
Aphididae, India 9740
Aphis gossypii, Japan 9741
arthropod pests, France 10752
extracts, insecticidal properties 4228
fields, Hymenoptera, India 9740
Leptinotarsa decemlineata, USSR 722
- Solanine**, effects, *Beauveria bassiana* 878
- Solanum**
Helicoverpa assulta 4898
insects, biology 3606
- Solanum americanum***, *Keiferia lycopersicella* 4900
- Solanum berthaultii***
extracts
antifeedants, *Leptinotarsa decemlineata* 8742
effects, *Myzus persicae* 7565
Leptinotarsa decemlineata
Maryland 8740
resistance 688, 1690, 1693
pest resistance 5844
- Solanum canasense***, *Leptinotarsa decemlineata*, Maryland 8740
- Solanum chacoense***
Leptinotarsa decemlineata 8755
resistance 1693, 5843
- Solanum coccineum***, insects, South Africa 2568
- Solanum demissum***, *Leptinotarsa decemlineata*, Maryland 8740
- Solanum hermannii***, insects, South Africa 2568, 3606
- Solanum hjertingii***, *Leptinotarsa decemlineata* 8755
- Solanum hougasii***, *Leptinotarsa decemlineata* 8755
- Solanum insanum***, *Orthezia insignis*, India 3979
- Solanum integrifolium***
insect pests
control, insecticides 9854
Ghana 9854
- Solanum kurtzianum***, *Leptinotarsa decemlineata* 8755
- Solanum mauritanium***, insects, South Africa 2568, 3606
- Solanum megistacrolobum***, *Leptinotarsa decemlineata*, Maryland 8740
- Solanum melongena*** (*see* Aubergines)
- Solanum muricatum***
arthropod pests 9109
bibliographies 9109
- Solanum nigrum***
Agrotis ipsilon, India 9828
Aphis fabae, German Democratic Republic 3237
Drosicha mangiferae, India 5768
Epilachna vigintioctomaculata, Korea Republic 3914
fields, Hymenoptera, Korea Republic 3914
Macrosiphini, New Zealand 1398
orchards, *Amblyseius victoriensis*, New South Wales 8631
Phytoseius neohongkongensis, Kenya 1833
Rhagoletis conversa, Chile 4882
Thysanoptera, food preferences 1709
- Solanum pinnatisectum***, *Leptinotarsa decemlineata*, Maryland 8740
- Solanum polyadenium***, *Leptinotarsa decemlineata*, Maryland 8740
- Solanum rigescens***, insects, South Africa 2568
- Solanum rostratum***, *Leptinotarsa decemlineata*, Colorado 7824
- Solanum sarrachoides***, *Leptinotarsa decemlineata*, Colorado 7824, 9829
- Solanum sisymbriifolium***
Acrosternum bellum, Brazil 11721
Gratiana spadicca 5908
- Solanum sparsipilum***, *Leptinotarsa decemlineata*, resistance 1693
- Solanum spgazzinii***, *Leptinotarsa decemlineata*, Maryland 8740
- Solanum tarjense***, *Leptinotarsa decemlineata*, Maryland 8740
- Solanum tomarillo***, *Rhagoletis conversa*, Chile 4882
- Solanum torvum***, *Epilachna*, Indonesia 2553
- Solanum trifidum***, *Leptinotarsa decemlineata*, Maryland 8740
- Solanum trilobatum***, Thysanoptera, food preferences 1709
- Solanum tuberosum*** (*see* Potatoes)
- Solanum xanthocarpum***, Thysanoptera, food preferences 1709
- Solar radiation**
effects
Entomophaga grylli 5128
insecticides 11972
- Solenopsin A**
pheromones, *Solenopsis invicta* 9204
synthesis 9204
- Solenopsis***
biology 8322
Brazil 8322
Florida 6520
pathogens 8322
taxonomy 6520
- Solenopsis corticalis***
distribution, Florida 1223
Florida 6520
- Solenopsis geminata***
biology 10192
Cajanus cajan, fields, Puerto Rico 3886
ecology, competition 2409
habitats, Guatemala 6583
physiology, muscles 7479
prey
Ceratitis capitata 6583
Empoasca 3886
Etiella zinckenella 1527
Solenopsis invicta, interactions 2409
sorghum, Honduras 8516
Texas 2409
- Solenopsis invicta***
Aphaenogaster occidentalis, interactions 10412
biology 10192
behaviour 362, 1227-1228, 3482, 6516, 6802, 9394
environmental factors 6515
reproduction 6519, 11428
Brazil 6516
cotton, fields, Texas 4925, 6978
Daceton armigerum, interactions 8325
diets 5430
distribution, Texas 10394
ecology, competition 2409
Florida 197, 3482, 4915
genetics, hybridization 10427
Georgia 6515
growth regulators, effects 6514
insecticides
pathogenicity 6512
toxicity 4449
maize, fields, Georgia 7608
monitoring, traps 8324
parasitoids 2416
Paratrechina vividula, interactions 362
pecans, orchards, Georgia 6802
pheromones 197, 9204
physiology
bioenergetics 2419
cuticle 2415
muscles 7479
oviposition 204
reproduction 203
predators 2412, 9393
predatory insects, interactions 4915
prey
Acheta domesticus 5430
Anthonomus grandis 6978
Bufo houstonensis 7477
insects 6802
- Solenopsis invicta* cont.**
prey *cont.*
Psallus seriatus 4925
Romalea guttata 718
Spodoptera frugiperda 7608
Solenopsis geminata, interactions 2409
Solenopsis richteri
hybridization 197
interactions 9394, 10427
sugarcane, plantations, Louisiana 362
Texas 203-204, 2409, 6519, 8324, 9393, 10412, 11428
USA 10427
- Solenopsis invicta* × *S. richteri***
biology, environmental factors 6515
Georgia 6515
- Solenopsis puncticeps***
taxonomy, new species 3487
Texas 3487
- Solenopsis richteri***
biology
behaviour 9394
environmental factors 6515
genetics, hybridization 10427
Georgia 6515
Mississippi 197
pheromones 197
Solenopsis invicta
hybridization 197
interactions 9394, 10427
USA 10427
- Solenopsis saevissima***
biology 8322
Brazil 8322
insecticides, pathogenicity 6512
pathogens 8322
- Solenopsis subterranea***
taxonomy, new species 3487
USA 3487
- Solenopsis xyloni***
almonds, California 523
control, cultural control 523
- Solidago***
Epiblema scudderiana, galls 3368
habitats, *Tenodera aridifolia*, USA 6545
Trirhabda canadensis, Minnesota 11513
- Solidago altissima***
Asteromyia carbonifera, galls 6646
Epicauta pensylvanica, Minnesota 340
Eurosta solidaginis
galls 6134
Pennsylvania 7568, 10516
resistance 5571
varietal susceptibility 3616
extracts, effects, *Trichoplusia ni* 9501
Trirhabda canadensis, Minnesota 11513
Uroleucon, Florida 4584
- Solidago canadensis***
Chauliognathus pennsylvanicus, Pennsylvania 4091
Diabrotica 9550
Eurosta solidaginis, galls 783
- Solidago graminifolia***, *Chauliognathus pennsylvanicus*, Pennsylvania 4091
- Solidago missouriensis***, *Epicauta pensylvanica*, Minnesota 340
- Solidago nemoralis***, *Epicauta pensylvanica*, Minnesota 340
- Solomon Islands**
Arpactophilus 11
Encarsia insulana 3499
forest trees, insect pests 838, 10908
- Solva laeta***, *Dysoxylum gaudichaudianum*, Queensland 1875
- Somalia**
Aleurocanthus, parasitoids 9147
Bruchidae 7441
- Somaticus**
insecticides, toxicity 5627
maize, South Africa 9572
- Somaticus geniculatus geniculatus***
insecticides, toxicity 6716
maize 6716
- Sonchus***, *Uroleucon sonchi*, Israel 1760
- Sonchus arvensis***
biological control 8419
Canada 8419
Ensinna sonchi, India 2692

Sonchus oleraceus

Acanthacris ruficornis, South Africa 9372

Apina callisto, Australian Capital Territory 8421

Songs

Acheta domesticus 6331

Anomalochrysa maclachlani 9417

Bactrocera cucurbitae 2313

Braconidae 7504

Ceratitidis capitata 4364

Chrysoperla 3529

Cicadidae 9234

Drosophila 10332

Ephippiger ephippiger 8271

Gryllus bimaculatus 9296

Gryllus integer 6412

Hylurgopinus rufipes 8864

insects 5285

Nezara 2815

Nilaparvata lugens 3274

Orthopteroidea 7255

Poecilimon schmidtii 6292

Riptortus clavatus 6879

Scapteriscus 2491

Teleogryllus commodus 6332

Tephritidae 3378

Tettigoniidae 461

Sophora flavescens, *Kytorhinus sharpianus*, Japan 1918

Sorbic acid, effects, stored products pests 3051

Sorbus

Anthonomus quadrigibbus, North America 8201

Pristiphora geniculata, New York 8871

Sorbus aucuparia, Lepidoptera, Norway 7068

Sorghastrum nutans, insects, Kansas 8528

Sorghum (*Sorghum bicolor*)

acaricides, residues 11584

Aphididae

Georgia 3774

Venezuela 4676

arthropod pests

Africa 1011

India 12021

Atherigona soccata

India 1495, 7666, 11585

resistance 1500-1502, 7660-7661

varietal susceptibility 459-460, 5673, 7664, 11589

attractants, *Eucelatoria bryani* 7873

Blissus leucopterus 2382

resistance 5676

books 2102

Busseola fusca

Africa 6459

Kenya 6743

Calocoris angustatus

damage 9605

varietal susceptibility 3727, 5674, 7662

yield losses 3722

Chaetocnema indica

damage 7667

India 6748

Chilo partellus 6698

India 2663, 3721, 7665, 8520, 9604

Kenya 1430, 6712

resistance 456, 458, 7663, 8522

reviews 3719

varietal susceptibility 1497, 5677, 9603, 11588

yield losses 6746

commodities

Alphitobius diaperinus 7986

insect pests 8943, 11031

varietal susceptibility 10039

Palembus dermestoides 6026

Prostephanus truncatus, India 858

Sitophilus oryzae 5087

Coniesta ignefusalis, Senegal 9576

Contarinia sorghicola

Argentina 4677

Brazil 6742

India 2393

Puerto Rico 1493

resistance 1496, 1504, 3723, 8518

varietal susceptibility 8523

Diatraea, Brazil 8515

***Sorghum* cont.**

Diatraea saccharalis 10543

Elasmopalpus lignosellus, economic thresholds 2667

Eurystylus marginatus

resistance 6744

Sahel 457

extracts

attractants, *Eucelatoria bryani*

7873

effects, *Tribolium castaneum* 10631

fields

Allorhogas pyralophagus, India

8520

beneficial insects, South Africa

1508

Braconidae, India 2663

Eulophidae, Puerto Rico 1493

Myosoma nyanzaensis, Kenya 1430

parasitoids

Argentina 4677

USA 6749

Trichogramma, Arkansas 3726

Graminella nigrifrons 6682

habitats, *Diagonogastra*, North

America 5584

Helicoverpa armigera

damage 7668

India 7669, 11590

resistance 1498

Helicoverpa zea, damage 455

Hieroglyphus banian, India 3716

insect pests 2102

Honduras 8516

India 2666, 8519

resistance 7659

USSR 1427

varietal susceptibility 1499, 7658,

11583

yield losses 3717

insecticides

effects 1497, 2034, 2668, 7656,

9602

residues 1494, 3718, 8519, 11586

toxicity 7655

Lepidoptera 6460

Kenya 6745

South Africa 1508

Spain 1373

West Africa 1509

Melanaphis sacchari, resistance 1503

Myllocerus menoni, India 2969

Mythimna separata 355

Noctuidae

Arkansas 3726

India 2662

USA 6749

Oebalus pugnax, Puerto Rico 9595

Oligonychus indicus, India 2664, 4675

Ostrinia furnacalis, China 10590

Peregrinus maidis, India 7657

pest control, Zimbabwe 1600

pest resistance 2666

predatory arthropods, India 4675

Psalydolytta, West Africa 3720

Pyralidae, North America 5584

Schizaphis graminum 8521, 11532

resistance 1505-1507, 2609, 4674,

5675, 8517, 11582

Texas 2665

varietal susceptibility 367

Sesamia cretica, Syria 4652

Sesamia inferens 2627

Sipha flava

economic thresholds 10632

varietal susceptibility 10633

Venezuela 3724

Spodoptera frugiperda

America 1492

Louisiana 6697

varietal susceptibility 6747

Spodoptera litura 11501

Stenotus rubrovittatus, Japan 3728

Thripidae, Texas 9524

Trichogramma 5478

tropics, reports 8154

Sorghum bicolor (see *Sorghum*)

Sorghum halepense

biological control 10517

Contarinia sorghicola, Puerto Rico

1493

***Sorghum halepense* cont.**

Diatraea saccharalis, Louisiana 9609

Graminella nigrifrons 11528

habitats, parasitoids, India 9527

Pentatomidae, Puerto Rico 9595

Scirpophaga excerptalis, India 9527

Sorghum sudanense, *Schizaphis graminum*

5679, 7604

Sorghum vulgare (see *Sorghum*)

Sorhoanus pascuellus

ecology, population dynamics 9545,

9611-9612

grasslands, UK 9545, 9611-9612

Sosipatra rileyella (see *Vitula rileyella*)

Sour cherries (see *Prunus cerasus*)

Sour oranges (*Citrus aurantium*)

Phyllocnistis citrella, resistance 3809

South Africa

Abacarus hystrix 9525

Acacia longifolia, biological control

agents 6658

Acacia mearnsii, insect pests 5040

Acanthacris ruficornis 9372

Acari 1191

Acia lineatifrons 6788

Acraea horta 3985

Aonidiella aurantii 4787

natural enemies 2442, 3815

parasitoids 4779

Aphididae 8469

Apis mellifera, predators 10475

Araneae 162

Buphonella murina 5628

Busseola fusca 2630, 4635

Cactoblastis cactorum 2567

Calepitrimerus 9667

Capys 2943

Chrysomphalus aonidum, parasitoids

3812

Citrus, pest control 568

Comostolopsis germana 6641

cotton, arthropod pests 1726

Cribrolecanium andersoni, parasitoids

6827

Cryptophlebia leucotreta 3814, 4788

parasitoids 3755, 5752, 8647

Curculionidae 2133, 3030

Diuraphis noxia 6706, 11536

natural enemies 5796

Drosophila flavohirta, parasitoids 2992

Eldana saccharina 365, 5590

Elisabethiella baijnathi 11656

Emex australis, insects 3608

Encyrtidae, hosts 3509

entomology, reports 1422

Eriophyidae 9674, 10011-10012, 11829

Eupatorium odoratum, natural enemies

2571

Formicidae 5427, 10971

Frankliniella occidentalis 2940

grapes, insect pests 4720

Graphognathus leucoloma 5631

Hemiptera, parasitoids 3574

Hodotermes mossambicus 2670, 6599,

6751, 11601

Iridomyrmex humilis 2417

Lepidoptera, predators 10466

Macrocyphonistes kolbeanus 3508

Macrotermes natalensis 4010, 5041

maize

Coleoptera 9574

insect pests 417, 9573

mites 161

Nezara viridula 6843

Opuntia, natural enemies 337

Phlyctinus callosus 495, 2724, 8615

Phthorimaea operculella, parasitoids

South Africa cont.

- sugarcane
 - conferences 7583
 - insect pests 1422
 - reports 9133
- Tegophrionus bicristatus* 9926
- Tenebrionidae 9572
- Tetranychus* 9883
- Tetranychus cinnabarinus* 4922
- Thrips tabaci*, predators 515, 4721
- Tortricidae 9675
- Trachymela tincticollis* 3021
- Trioza erytrae* 9711
- Trogoderma granarium* 8930
- tyres, arthropods 8318

South America

- Aclerda takahashii* 6457
- Anastrepha grandis* 2141
- Chalcidoidea 4511
- Coleoptera 7466
- Curculionidae 9
- Drosophila subobscura* 5353
- Dysdercus albofasciatus* 3929
- Formicidae 11420
- Heteropsylla cubana* 6455
- Hydrellia griseola*, parasitoids 1469
- insect pests, maps 6456
- Neohydronomus* 7559
- Pistiacola* 9497
- Rhopalocera 9297
- Scapteriscus*, predators 2446
- Spodoptera frugiperda* 3603
- Sternonchetus mangiferae* 6460

South East Asia

- Apis mellifera*, ectoparasites 7517
- entomology, biosystematics 5409
- quarantine, information 5175
- vegetables, research, conferences 10203

South Korea (see Korea Republic)**Southern bean mosaic sobemovirus**

- vectors
 - Coleoptera 5103
 - Ootheca mutabilis* 5810, 6456

Southern peas (see Vigna unguiculata)**Sowthistle yellow vein rhabdovirus**

- detection 1396
- vectors, *Hyperomyzus lactucae* 1396

Soyabean mosaic potyvirus, vectors, Myzus persicae 8705**Soyabean oil**

- control, *Callosobruchus chinensis* 8932
- effects, *Callosobruchus maculatus* 6047

- pesticides, formulations 11137
- toxicity, *Sitophilus oryzae* 7110

Soyabeans (Glycine max)

- Acrosternum bellum*, Brazil 11721
- Acrosternum hilare*, damage 9803
- Anarsia ephippias*, India 3867
- Anticarsia gemmatilis* 2278, 4591, 11683

- Arkansas 9802
- Brazil 11720
- Florida 4862, 6895, 8712
- Louisiana 9806

- Aphis craccivora* 1602, 2828
- India 7643

- arthropod pests
 - Brazil 1654, 4860
- control, integrated control 1660
- Italy 11636

- arthropods, Argentina 4859
- Asphondylia*, Japan 3884
- Auchenorrhyncha, Argentina 6890
- Bemisia tabaci*, resistance 1664
- bibliographies 10799

- Chrysodeixis includens* 5823-5824
- damage 1658, 1661, 1667, 2842
- Louisiana 10801
- South Carolina 4857

- Chrysomelidae
 - Ecuador 5815
 - varietal susceptibility 7167

- Coleoptera, resistance 2841

commodities

- Callosobruchus*, Indonesia 5089
- Callosobruchus maculatus* 11877
- diets, *Helicoverpa armigera* 9360
- insecticides, residues 7105
- Palembus dermestoides* 6026
- Riptortus clavatus* 8002

Soyabeans cont.

- Cynthia cardui*, German Federal Republic 653, 3885
- Delia platura*, Ohio 9801
- Deroceras reticulatum*, damage 327
- Elasmopalpus lignosellus*, damage 3881
- Epilachna varivestis*
 - Indiana 5818
 - resistance 1665, 5817
 - yield losses 9809
- Etiella zinckenella*
 - damage 9804
 - Egypt 1662
 - Puerto Rico 1527
 - resistance 10805
- extracts, toxicity, Coleoptera 3148
- fields
 - Andrallus spinidens*, India 6894
 - beneficial arthropods
 - China 1659
 - Spain 9440
 - beneficial insects
 - India 8713
 - Kentucky 5819, 10439
 - Braconidae, South Carolina 10802
 - Calosoma alternans*, Brazil 11720
 - Coccinellidae, India 7643
 - Collembola 10598
 - Copidosoma floridanum*, South Carolina 4857
 - Glabromicroplitis croceipes*, Mississippi 2901
 - Hymenoptera, Japan 8692
 - Nabis*, Kentucky 8710
 - parasitoids
 - Georgia 4856
 - Louisiana 9807
 - Puerto Rico 9804
 - Podisus maculiventris*, Indiana 5818
 - predatory arthropods, Brazil 5820
 - predatory insects, Florida 4862
 - Trissolcus basalis*, Louisiana 6896
- Helicoverpa zea*
 - damage 11726
 - Georgia 4856
 - North Carolina 2839, 11724
 - resistance 7802
 - varietal susceptibility 6891
- Hishimonus sellatus*, China 11657
- Holotrichia*, China 4858
- insect pests 1666
 - Brazil 4855, 8335
 - damage 3880, 11728
 - Florida 11729
 - India 2832, 4863, 6898, 9808, 11723
 - natural enemies 589
 - Nepal 1657
 - resistance 11279
 - tillage, effects 11729
 - USSR 589
 - varietal susceptibility 4854
- insecticides, residues 2834, 11727
- insects, cultural methods, effects 10803
- intercropping, maize, pest control 4642
- Lepidoptera, Florida 6893
- Lygus lineolaris*
 - Arkansas 1663
 - varietal susceptibility 6892
- Matsumuraeses phaseoli*, Japan 10804
- Megalurothrips usitatus*, Taiwan 1633
- Melanagromyza sojae*
 - damage 5822
 - economic thresholds 11730
 - microbial pesticides, persistence 5622
- Myochrous armatus*
 - Brazil 4861
 - damage 8706
- Myzus persicae*, Iraq 8705
- Noctuidae 8709
 - Arkansas 9805
 - Florida 11725
 - Japan 9799
 - Louisiana 9807
 - resistance 657, 7801, 8714
 - South Carolina 10802
 - Spain 9440
 - varietal susceptibility 8715

Soyabeans cont.

- Omiodes indicata*
 - China 1659
 - varietal susceptibility 3882
- Ophiomyia centrosematis* 2833
- Ophiomyia phaseoli* 2843
- Palomena angulosa*, damage 7804
- Pentatomidae
 - damage 655
 - Louisiana 6896
- pest control 10799, 11279
 - Asia, reports 2119
 - Brazil 1655-1656
 - Georgia 658
 - India 4812
 - USA 10800
 - Zimbabwe 1600
- pests, damage 5821
- Piezodorus hybneri*, India 9800
- Plathypena scabra*, Kentucky 5819, 8710
- Pyrilidae, India 2838
- research, Brazil, reports 11279
- Riptortus clavatus*, Japan 8692
- Rivula*, India 6894, 6899, 8713
- Spilosoma obliqua*, damage 3883
- Spissistilus festinus*
 - Arkansas 8707, 9638
 - damage 656
 - USA 6897
- Spodoptera exigua*, resistance 9847
- Spodoptera littoralis*, interactions 8711
- Spodoptera litura*, Taiwan 11722
- Tetranychus*, Egypt 2835
- Tetranychus cucurbitacearum*, Egypt 654
- Tetranychus urticae* 2844, 6120
 - damage 5814
 - resistance 11731
- Trichoplusia ni* 7762
- Udea ferrugalis*, damage 7803

Spain

- Acrididae 2535
- Agrotis* 4644
- Aphididae 389, 8454, 9717, 10542
- Aphis* 8639
- arthropods, identification services 4569
- Calliptamus barbarus* 182
- Capnodis tenebrionis* 4356
- Carabidae 1185, 5600, 11468, 11472
- Carabus* 3511
- Cataglyphis iberica* 8328
- Catocalinae 4989
- Cepaea nemoralis* 3599, 7549
- Cerambycidae 7020, 11396
- Chorebus* 11469
- Chorthippus jucundus* 1134
- Chorthippus parallelus* 3734
- Chrysidae 4467
- Collembola 4383, 4987
- Colotis evagore* 1408
- crops, Lepidoptera 1373
- Cryptostigmata 4399, 7678
- Cucullia* 4397
- Cynipidae 4988, 7891
 - parasitoids 11473
- Danaus plexippus* 6656
- Dilariidae 7507
- Diphyllaphis mordwilko* 2979
- Dryinidae 11450
- Epiblema* 1756
- Eyprepocnemis plorans* 5345
- forest trees, Lepidoptera 7906
- Formicidae 4613, 5426
- fruits, mites 4354
- Graellsia isabellae* 1033, 1827
- grapes
 - insecticide residues 4719
 - mites 6228
- grasslands, insects 4452
- Heteracris littoralis* 1136, 6506
- Heterocera 1179, 6218
- Hipparchia fidia*, parasitoids 4689
- Histeridae 7429
- Hoplodrina* 1176
- Ichneumoninae, hosts 7505
- Isodontia mexicana* 2586
- Lavandula latifolia*, pollinators 9507, 11518
- Lepidoptera 1177-1178, 2343, 8276
- conferences 2073

Spain cont.

- Leucoptera malifoliella* 8598
 Macroheterocera 5391
Myzocallis coryli, parasitoids 3772
 Neuroptera 11394
 Noctuidae 1588
 natural enemies 9440
Nymphalis polychloros 1824
Onychiurus folsomi 1175
 Oppiidae 11863
 Orthoptera 7432
Pauesia, hosts 7506
 peaches, pest control, conferences 5238
 pesticides, usage 6139
Phagus sylvatica, Lepidoptera 8832
Prays citri 4791
Prays oleae 579
 Psocoptera 8830
Quercus ilex, Lepidoptera 818-819, 1877
 Rhopalocera 1172, 1823, 5020, 11360
Saissetia oleae 11671
 Scarabacidae 1196
 Scarabaeoidea 1211, 1359, 8398
 Sciomyzidae 4404
Selenocephalus 9178
 Sphecidae 7320, 11470
 Syrphidae 6547, 11471
Tachysphex 5363
Tetralicia iberiaca 9912
Thaumetopoea pityocampa 8239, 8872
Thysanoplusia orichalcea 4355
Tomares ballus 1400, 5573
 Tortricidae 1755-1756
 Triaspidini, hosts 4468
 water, pesticide residues 11208
- Spalangia cameroni**
 biology 6543
 hosts, *Exorista sorbillans* 6543
- Spanagoniuss alboscissatus**
 prey, *Anticarsia gemmatilis* 4862
 soyabeans, fields, Florida 4862
- Spanish broom (see *Spartium junceum*)**
- Sparassidae**
 Israel 10467
 taxonomy 10467
- Sparganothis pilleriana*, parasitoids 7505
Sparganothis sulfureana, *Hypericum*, USA 3613
- Spartina alterniflora*, *Prokelisia marginata*, Florida 6538
- Spartium junceum**
Aphis intybi 6990
 Iraq 6990
Apopestes spectrum 1825
Piranea spartii, Yugoslavia 11814
- Spartocera batatas*
 morphology 1699
 sweet potatoes, Cuba 1699
- Spathius conigcanda*
 forests, India 1862
 hosts, Scolytidae 1862
- Spathosternum*, taxonomy 6250
- Spathosternum prasiniferum**
 alcohols, effects 8259
 ecology, population dynamics 3469
 genetics, chromosomes 8259
 Pakistan 3469
 parasitoids 3469
- Spathosternum prasiniferum prasiniferum**
 genetics, karyotypes 9279
 India 9279
 predators 3505
 prey, *Mantis religiosa* 3505
- Spermophagini**, taxonomy, new tribe 4269
- Spermophagus**, taxonomy 4269
- Spermophagus pygopubens**
 distribution, India 11896
 roselle, commodities 11896
- Sphaeralcea*, *Anthonomus*, Arizona 8779
- Sphaeralcea angustifolia*
 Cecidomyiidae, Texas 1337
 habitats, *Trichacis crossi*, Texas 1337
- Sphaeralcea emoryi*, *Anthonomus*, Arizona 8779
- Sphaeralcea lindheimeri*
Anthonomus grandis 5879
 extracts, effects, *Anthonomus grandis* 5879
- Sphaerididae**
 pathogens 4149

Sphaerididae cont.

- Poland 4149
- Sphaeridiinae**
 biology 7306
 habitats, North America 7306
 taxonomy 7306
- Sphaeridium**
 biology 7306
 habitats, North America 7306
- Sphaeritidae**, taxonomy 3243
- Sphaeroceridae**
 biology 4386
 ecology 9613
 grasslands, German Democratic Republic 9613
 taxonomy 4386
- Sphaerophoria bengalensis**
 apples, orchards, India 1561
 prey, *Aphis pomi* 1561
- Sphaerophoria indiana**
 Indian mustard, fields, India 2810, 6873
 parasitoids 6873
 plums, orchards, India 4763
 prey
 Aphididae 2810
 Hyalopterus pruni 4763
- Sphaerophoria philanthus**
 maize, fields, Quebec 6714
 prey, Aphididae 6714
- Sphaeroterme sphaerotherax**
 bacteria, interactions 9460
 Congo 9460
- Sphagnum**, insecticides, residues 8133
- Sphecia sinigensis**
 China 8834
 pheromones 8834
- Sphecidae**
Ammi visnaga, habitats, California 6642
 distribution
 Chile 1340
 Spain 11470
 ecology 1329, 2441
 food plants 1340
 forests, German Federal Republic 1818
Ophrys, pollination 6992
 Spain 7320
 taxonomy 1340
 urban areas, Poland 1329, 2441
- Sphecinae**
 biology 9427
 distribution
 Arab countries 231
 Michigan 9427
 prey 9427
 taxonomy 231
- Sphecius grandis**
 Arizona 8333
 biology, behaviour 8333
- Sphegigaster**
 biology 212
 phenology 7789
 hosts
 insects 212
 Tropicomyia theae 3953
 Nearctic Region 212
 taxonomy 212
 tea, plantations, India 3953
 vegetables, fields, India 7789
- Sphegigaster aurata**
 biology 212
 hosts, *Hexomyza schineri* 212
 Nearctic Region 212
- Sphegigaster pallicornis**
 biology 212
 hosts, *Phytomyza ilicis* 212
 Nearctic Region 212
- Sphegigaster salicinus**
 biology 212
 hosts, *Hexomyza salicis* 212
 Nearctic Region 212
 taxonomy, new species 212
- Sphenarches ontario**, biology 9661
- Sphenoptera chalcichroa arenosa*, *Acacia nilotica*, Sudan 1881
- Sphenoptera indica*, *Cajanus cajan*, India 2837
- Sphex peruanus**
 distribution, Chile 1340
 taxonomy 1340

Sphingidae

- biology
 defence 6414
 food plants 4388
 distribution
 Ivory Coast 4388
 Mexico 3413
 Spain 6218
 France 2356
 French Guiana 11075
 pathogens 11075
- Sphinx pinastri**
 parasitoids 5933
Pinus, Italy 5933
Pinus sylvestris, Finland 1835
 pollutants 1835
- Spodromantis lineola**, physiology, sense organs 2249
- Spice plants**
 arthropod pests
 biology 6233
 books 6233
 control 6233
 damage 6233
 natural enemies 6233
 India, reports 7296
 pest control 11276
 pesticides, residues, conferences 9124
 research, India, reports 11276
- Spices**
 arthropod pests
 biology 6233
 control 6233
 damage 6233
 natural enemies 6233
- Spiders (see Araneae)**
- Spilochalcis**
 hosts, *Cydia molesta* 4767
 peaches, orchards, Chile 4767
- Spilochalcis side**
 California 4590
 hosts, *Coleophora klimeschiella* 4590
- Spilococcus cactearum**, taxonomy, synonyms, of *Spilococcus mamillariae* 11788
- Spilococcus leucopogi**, taxonomy, synonyms, of *Spilococcus mamillariae* 11788
- Spilococcus mamillariae**
 taxonomy
 from *Coccus* 11788
 synonyms 11788
- Spilosoma**
 Africa 2132
 taxonomy 2132
- Spilosoma congrua**
 biology, behaviour 6429
 USA 6429
- Spilosoma lubricipeda**
 France 9341
 monitoring, traps 9341
- Spilosoma maculatus**
 plant extracts, toxicity 1653
Vigna unguiculata 1653
- Spilosoma obliqua**
 biochemistry, enzymes 10268
 biology 1647, 2782
 behaviour 5301
 development 595, 10811
 food consumption 5726
 phenology 1744
Brassica campestris, India 7783
 control, insecticides 2729, 5813
 food plants 595, 2782
 India 1647
 groundnuts, varietal susceptibility 4841, 10811
 insecticides
 effects 110, 5892
 toxicity 3159, 7783, 10114
 jute 5892
 Pakistan 1744
 mulberries, India 2729, 5726
 natural enemies 872, 1744
 parasitoids 5479, 7520
 pathogens 1953
 physiology
 chemical composition 110, 6367
 endocrine system 7370
 enzymes 48
 pheromones 5301

- Spilosoma obliqua* cont.**
 plant density, effects 4863
 plant extracts, antifeedants 7244
 rearing techniques, books 3462
Ricinus communis 7244
 row spacing, effects 11723
 soyabeans
 India 4863, 11723
 Nepal 3883
 sugarbeet, varietal susceptibility 685
Vigna radiata, India 5813
- Spilosoma virginica***
 biology, behaviour 6429
 USA 6429
- Spilostethus*, sorghum, Africa 3717**
- Spilostethus macilentus***
Calotropis procera 4598, 4810, 5576
 morphology 4598, 5576
 digestive system 11298
 mouthparts 11296
 salivary glands 11297
 physiology
 digestion 4810
 digestive system 4598, 5576
- Spilostethus pandurus***
 genetics, polymorphism 784
Nerium oleander, Cyprus 784
 pathogens 10053
- Spinach* (*Spinacia oleracea*)**
 Acaridae, damage 1606
 fields, predatory mites, Italy 9746
Lixus juncii 6458
 Tetranychidae, Japan 9748
Tyrophagus similis, Italy 9746
- Spinacia oleracea* (see Spinach)**
- Spinaetergum*, taxonomy, new genus 5948**
- Spinaetergum adinae***
Adina racemosa, China 5948
 taxonomy, new species 5948
- Spinotarsus*, crops, Cape Verde 151**
- Spinotarsus caboverdus***
 Cape Verde 3133
 control, integrated control 3133
- Spintrophya servula*, cocoa, Puerto Rico 5899**
- Spintherus dubius***
 distribution, Poland 8543
 hosts, *Apion apricans* 8543
- Spiraea*, *Althaeus folkertsi* 3607**
- Spiraea latifolia*, *Hemileuca lucina*, Massachusetts 3629**
- Spiraea thunbergii*, *Texocoris nigrellus*, USA 2939**
- Spirochaetales*, *Odontotermes formosanus*, interactions 5517**
- Spirodela polyrhiza*, *Neohydronomus affinis* 5556**
- Spirodela punctata*, *Neohydronomus affinis* 5556**
- Spiroplasma citri***
 vectors
 Cicadellidae 10372, 11901
 Circulifer tenellus 10585
 insect pests 12019
 insects 998
- Spiroplasma kunkelii***
 vectors
 Cicadellidae 11901
 insect pests 12019
- Spiroplasma phoeniceum***
 vectors
 Cicadellidae 11901
 insect pests 12019
- Spissistilus festinus***
 biology 8707
 behaviour 9638
 cotton, Mississippi 1735
 ecology, population dynamics 6897
 field crops, Arkansas 9638
 monitoring, traps 9638
 predators 1735
 soyabeans
 Arkansas 8707
 damage 656
 USA 6897
- Spodoptera***
 antifeedants, reviews 7245
 control
 insecticides 5813
 integrated control 1712
- Spodoptera* cont.**
 cotton
 Israel 8781
 Paraguay 8782
 French Guiana 11075
 growth regulators, toxicity 8781
 insecticides, pathogenicity 5126
 pathogens 11075
 tomatoes, Central America 1712
Vigna radiata, India 5813
- Spodoptera depravata*, pathogens 4142**
- Spodoptera dolichos***
 French Guiana 11075
 pathogens 11075
Pinus, Brazil 10913
- Spodoptera eridania***
 biology
 behaviour 6671
 environmental factors 8831
 food preferences 4848
 cassava, Trinidad and Tobago 1701
 fertilizers, effects 8536
 food plants, Nicaragua 4848
 insecticides, toxicity 8084
Lotus corniculatus 1513, 8536
Mentha piperita 6671
Mimosa scabrella, Brazil 8831
Phaseolus lunatus, damage 11399
 physiology, nutrition 2233
- Spodoptera exempta***
 Africa 3140
 biology, migration 7284
 cereals, Africa 2589
 ecology, environmental factors 3140
 field crops, Kenya 409
 outbreaks 3140
 pheromones 409
 physiology, reproduction 9238
 plant extracts, antifeedants 7577
- Spodoptera exigua***
 alkaloids, effects 1097
Allium fistulosum, Japan 9843
Bacillus thuringiensis, toxicity 11081
 biology 222, 3370
 development 7864
 food consumption 4829
 food preferences 4848
 phenology 6858
 reproduction 9194
 cabbages 4829
 carbon dioxide, effects 7864
 chrysanthemums, resistance 1980
Cicer arietinum, India 2853
 control 2635, 10839
 growth regulators 594, 5854
 insecticides 3913, 5162, 9560
 mating disruption 9843
 microbial pesticides 741, 5163
 cotton 7864
 USSR 741
 distribution, Switzerland 142
 ecology, population dynamics 9326
 Egypt 9326
 food plants 9643
 Nicaragua 4848
 resistance 9847
 greenhouse crops 10275
 Iraq 5162-5163
 insecticides
 pathogenicity 888, 5126, 11936
 resistance 11977
 toxicity 7183
 Iraq 5163
 lucerne, California 11611
 maize
 Taiwan 2635
 Turkey 9560
 marking 9643
 monitoring, traps 922, 1082, 9843, 10275
 natural enemies 3370
 onions
 Indonesia 3913
 Japan 10839
 parasitoids 222, 10385
 pathogens 4100
 pheromones 1082, 9843, 10275, 10839
 physiology
 excretion 1097
 nutrition 10385
 research, conferences 10214
- Spodoptera exigua* cont.**
 shallots 5854
 soyabeans
 resistance 8714
 varietal susceptibility 8715
 sugarbeet, Iran 3370
 Taiwan 1082
 tomatoes
 California 11977
 interactions 6945
 USSR 922
 vegetables 594
 Florida 6858
- Spodoptera frugiperda***
 antifeedants 12012
 bibliographies 5228
 biology 222, 3603, 5228, 6709, 8480
 behaviour 403, 428-429
 environmental factors 134
 phenology 6697
 reproduction 5368
 Brazil 9547
 cell cultures 165-166, 11411
 cell lines 3449
 antigens, detection 4124
 biochemistry 8044
 culture techniques 10373
 enzymes, production 11108-11109
 insecticides, pathogenicity 1939
 pathogens 1955, 4090, 4101, 4140, 5308, 6061, 7133-7134, 11090, 11097, 11107
 genetic engineering 10081
 growth regulators 7232
 properties 5287
Coniothyrium, interactions 1492
 control 3603, 5228
 biological control 403, 9561
 insecticides 1638, 3671, 4633, 5623, 8482, 8497, 9562
 cotton, Mississippi 9884
 crops, Mexico 402
Cynodon dactylon, resistance 2671, 2675, 9608
 ecology, distribution 9884
 endophytes, effects 7672
 fertilizers, effects 8479-8480, 8502
 Florida 925
 food plants 8488
 Louisiana 6697
 foxtail millet 8502
 French Guiana 11075
 Gramineae, Louisiana 7582
 grasses, resistance 7672
 growth regulators 11981
 effects 10163
 insecticides
 pathogenicity 4130, 11919
 toxicity 404, 11919
 Latin America 3603
Lespedeza cuneata, varietal susceptibility 9629
 maize 6709, 8480
 Brazil 3671, 5623, 8476, 8478-8479
 Connecticut 3676
 Florida 4633
 Georgia 7608
 Honduras 2637, 4634
 Mexico 403-404
 Mississippi 7606, 10599
 New Jersey 8497, 9568
 Nicaragua 4639
 North America 2624
 resistance 1448, 8500
 USA 8482
 varietal susceptibility 8491-8492
 Venezuela 9561-9562
 monitoring, traps 925, 3676
 mycotoxins
 effects 354, 10165
 toxicity 873, 11158
 natural enemies 3603, 4634, 7608, 11941
 parasitoids 222, 250, 428, 2473, 8476, 8478, 8488, 8491, 9430
 pathogens 2177, 4095, 4119, 4134-4136, 4150, 5113, 6074-6075, 6084, 6709, 7152, 8045, 9000, 9547, 11075, 11091, 11105, 11108-11109
Penicillium, toxicity 4174

***Spodoptera frugiperda* cont.**

- Phaseolus vulgaris*, Brazil 1638
 - pheromones 6304
 - physiology
 - development 2177
 - endocrine system 6304
 - enzymes 54
 - immune response 9430
 - nervous system 8247
 - nutrition 5294
 - plant extracts, toxicity 7189
 - predators 5623, 7532, 8492
 - reviews 3603
 - rice 429
 - Cuba 428
 - sampling 2637
 - sorghum
 - America 1492
 - Honduras 8516
 - varietal susceptibility 6747
 - soyabeans, varietal susceptibility 8715
 - tillage, effects 402
- Spodoptera latifascia***
- Gramineae, Brazil 5601
 - natural enemies 5601
- Spodoptera littoralis***
- antifeedants 12012
 - Betula pendula* 5931
 - biochemistry, endocrine system 4337
 - biology 222
 - behaviour 887, 8711
 - reproduction 5140
 - Cape Verde 907
 - cell cultures 11411
 - control
 - biological control 907
 - insecticides 5162, 10857
 - microbial pesticides 5163
 - cotton, Egypt 2905, 10857
 - crops, Spain 1373
 - diets 1722, 2010
 - distribution, Italy 9336
 - ecology, population dynamics 9326
 - Egypt 3935, 5447, 9326
 - food plants, interactions 8711
 - greenhouse crops, Iraq 5162-5163
 - growth regulators 11981
 - effects 3207-3208, 8151-8152
 - metabolism 8150
 - toxicity 11209
 - insecticides
 - metabolism 11159
 - pathogenicity 899, 5126, 11942
 - resistance 1064, 2011, 2905, 3207-3208, 3935
 - toxicity 1722, 2010, 3155, 8089, 10855, 11963
 - Iraq 5163
 - microbial pesticides, effects 4183
 - monitoring, traps 2944
 - morphology, sense organs 10251
 - ornamental plants, Italy 2944
 - oviposition deterrents 107
 - parasitoids 222, 1722, 5447, 5790
 - pathogens 887, 4102, 5140, 11099, 11106
 - physiology
 - endocrine system 9249, 11333
 - enzymes 1064, 2011, 3207-3208, 11159
 - pheromones 2219, 7345
 - plant extracts, antifeedants 3149-3150, 7577, 10159, 10537
 - plant proteins, toxicity 9105
 - Ricinus communis* 3149-3150, 11159
 - secondary metabolites, effects 5931
 - sex pheromones 2944
- Spodoptera litura***
- biology 6855
 - behaviour 5171, 10339
 - development 4894, 7883, 11501
 - diapause 2301
 - environmental factors 9813
 - food consumption 5726
 - phenology 6952, 11722
 - Brassica*, Singapore 7775
 - cabbages, India 3855
 - Capsicum annuum*, India 735
 - cauliflowers 8996
 - cell lines 6078
 - insecticides, pathogenicity 1939

***Spodoptera litura* cont.**

- Colocasia esculenta* 4894
 - control
 - insecticides 2827, 3855, 8788-8789, 9814
 - mating disruption 5909
 - microbial pesticides 8053
 - diets 4894, 6216
 - extracts, adjuvants, insect viruses 9004
 - field crops
 - India 6984
 - Philippines 5894
 - food plants 6855, 8370, 11501
 - genetics, DNA 5342
 - groundnuts 9813
 - India 660, 668, 9814
 - varietal susceptibility 4842
 - growth regulators, effects 991, 5119, 12010
 - hormones, effects 11325
 - India 3164, 8053, 12021
 - insecticides
 - pathogenicity 1942, 8996
 - toxicity 3159, 3164, 5897, 6481, 9590, 10065, 10107
 - juvenile hormones, effects 3329
 - legumes, Taiwan 11722
 - monitoring, traps 660, 5171, 8659, 11722
 - morphology, reproductive organs 6282
 - mulberries, India 5726
 - natural enemies 872
 - neem extracts, antifeedants 10798
 - nuclear polyhedrosis viruses, production 5119
 - parasitoids 1687, 2439, 5479, 6984, 8370, 8386, 9815
 - pathogens 880-881, 1955, 4158, 4562, 5119, 6071, 6078, 8039, 9007, 9009, 10075
 - pheromones 5171, 11722
 - physiology
 - endocrine system 3329
 - enzymes 7338
 - nervous system 5322
 - nutrition 11526
 - reproduction 6290
 - reproductive organs 11325
 - plant density, effects 4863
 - plant extracts
 - antifeedants 3922, 5224, 10162
 - effects 929, 6216, 7243, 11526
 - toxicity 1986, 5189, 6163, 7578
 - potatoes, India 1687, 2867
 - radiation, effects 7398, 7847
 - rice 9590
 - Ricinus communis* 991, 3922, 7847, 10065, 11526
 - Rosa*, Japan 5909
 - row spacing, effects 11723
 - sesame, India 6952
 - soyabeans, India 4863, 11723
 - Taiwan 5171
 - tobacco 5897
 - India 7883, 8788
 - Indonesia 8789
 - vegetables, India 8659
 - Vigna angularis*, damage 2829
 - Vigna mungo* 10798
 - Vigna unguiculata*, India 2827
- Spodoptera mauritia***
- Gramineae 443
 - growth regulators, effects 3209, 5219, 11175
 - pathogens 9003
 - physiology, polymorphism, colour 7639
 - rearing techniques 443
 - rice 7639
- Spodoptera mauritia acronyctoides* (see *S. mauritia*)**
- Spodoptera praefica***, lucerne, California 11611
- Spodoptera sunia***
- biology, food preferences 4848
 - food plants, Nicaragua 4848
- Spondias*, *Platypus parallelus* 6456**
- Spondias purpurea***
- Adelonia sulcatulus*, Mexico 3983
 - Tenuipalpus uvae*, Costa Rica 4594
- Spondyliinae**, Taiwan 4395

Sporospora uella*, hosts, *Scapteriscus* 1519*Sprays**

- application 188, 491, 503, 3735, 6138, 6147, 7161, 10685, 11133-11134
 - remote control 6129
 - research 8306
 - safety 2391
 - deposition, monitoring 4419
 - drift, effects, determination 9051
 - formulations 7161
- Spruce (see *Picea*)**
- Spudea rutilicilla***
- Italy 9888
 - monitoring, traps 9888
- Squash leaf curl geminivirus**, vectors, Aleyrodidae 1919
- Squashes (see also *Cucurbita* spp.)**
- Acalymma vittatum*, Illinois 7788
 - Anasa tristis* 11702
 - Oklahoma 10781
 - Aulacophora foveicollis*, resistance 1631
 - Diabrotica*, Pennsylvania 9550
 - Empoasca*, California 11710
 - Epilachna dodecastigma*, Indonesia 2553
- fields**
- beneficial arthropods, California 11710
 - Orius tristicolor*, California 8662
 - predatory arthropods, Iraq 4836
 - Frankliniella occidentalis*, California 8662
 - insect pests, Cuba 5548
 - Unaspis yanonensis* 4778
- Squirrels**, prey, *Choristoneura fumiferana* 8845
- Sri Lanka**
- Coccophagus* 240
 - coconuts, reports 7292
 - Crematogaster dohrni* 3954
 - Derelomorphus subfulvus* 3925
 - Euwallacea fornicatus* 7888
 - Isopoda 9367
 - Lachnosterna disparilis* 10883
 - Leptocorisca acuta* 439
 - man, pesticides, effects 8111
 - Odontotermes* 6695
 - predators 2524
 - Opisina arenosella*, predators 3757
 - Salvinia molesta*, natural enemies 8416
 - tea, arthropod pests 3955
 - Vigna radiata*, insect pests 6888
- Srobilanthes*, *Nasonovia rostrata***, India 2966
- L(-)-Stachydrine**, mixtures, attractants, *Papilio protenor* 7750
- Stachys arvensis***, orchards, *Amblyseius victoriensis*, New South Wales 8631
- Stachytarpheta indica*, *Orthezia insignis***, India 3979
- Stachytarpheta mutabilis***
- insects
 - Papua New Guinea 8436
 - pollination 8436
- Staphylinidae**
- barley, fields, German Federal Republic 2623
 - biology 1005, 2597
 - behaviour 1303
 - cereals, fields, UK 371, 3516
 - coniferous forests, Ontario 8862
 - control 1005
 - crops, fields, USSR 8412
 - ecology 6539-6540
 - fields
 - Finland 10577
 - German Federal Republic 680
 - Netherlands 6526
 - habitats, Switzerland 4379
 - insecticides, effects 680, 4822
 - meadows, Switzerland 463
 - molluscicides, effects 371, 463
 - monitoring, traps 6526, 8862
 - moorlands, UK 6539-6540
 - morphology 23, 8214
 - pesticides, effects 2623, 6526
 - physiology, mandible, forces 2499
 - predators 374

Staphylinidae *cont.*
prey
Aphididae 8468
Rhopalosiphum padi 10577
Sitobion avenae 3516, 8470
rape, fields, Poland 4822
soil, Italy 2983
Switzerland 374
taxonomy 3242
Turkey 1005
wheat
fields
German Federal Republic 8468
UK 8470
Staphyliniformia, taxonomy 10244
Staphylininoidea, morphology 23
Staphylinus olens
prey, invertebrates 9396
UK 9396
Statistics, insecticides, toxicology, books 7269
Stearic acid, effects, *Adoxophyes orana* 6803
Steatoda triangulosa
prey, *Solenopsis invicta* 2412
Solenopsis invicta, Texas 2412
Steganacarus carinatus
forest trees 3018
taxonomy 3018
Steganacarus magnus, biology, development 8267
Steganacarus pseudocarinatus
Quercus ilex 3018
taxonomy, new species 3018
Stegasta bosqueella
groundnuts, Texas 3889
predators 3889
Stegobium paniceum
control, controlled atmospheres 5079
Japan 9448
museum specimens 5079
predators 860-861, 9448
Steinernema (see also *Neoaplectana*)
chromosome numbers 1933
control, *Cyrtotrachelus longimanus* 9518
hosts, *Ascotis selenaria* 10070
Steinernema bibionis (see *Neoaplectana bibionis*)
Steinernema carpocapsae (see *Neoaplectana carpocapsae*)
Steinernema feltiae (see *Neoaplectana carpocapsae*; *Neoaplectana feltiae*)
Steinernema glaseri (see *Neoaplectana glaseri*)
Steinernema kraussei, hosts, *Galleria mellonella* 4098, 6080
Steinernema kushidai
culture techniques 11069
hosts, *Anomala cuprea* 1943
Steinernematidae, soil, Finland 6099
Stelidota
morphology, male genitalia 11291
North America 11291
Stelidota geminata
morphology, male genitalia 11291
North America 11291
Stelidota octomaculata
morphology, male genitalia 11291
North America 11291
Stelis montana
biology 9402
hosts, *Osmia* 9402
Stellaria, habitats, invertebrates, USSR 3420
Stellaria media
Myzus persicae, UK 3171
Thysanoptera, pollination 1395
Stem borers
control 2661
rice
India 421
Malaysia 2661
Stemona japonica, control, Acari 1254
Stenachroia elongella, sorghum, India 2666
Stenchaetothrips biformis
collection 11577
control, insecticides 3698
distribution, Australia 3232
predators 8509
Stenchaetothrips biformis *cont.*
rice
China 8509
India 3698
resistance 5667
varietal susceptibility 11577
Stenchaetothrips minutus
biology 9526
sugarcane, Japan 9526
Steneotarsonemus furcatus, onions, India 717
Steneotarsonemus pallidus (see *Phytonemus pallidus*)
Stenobracon deesae
Gramineae, habitats, India 9527
hosts, *Scirpophaga excerptalis* 9527
Stenocatantops splendens, rice, China 3685
Stenocereus gummosus, extracts, effects, *Drosophila mojavensis* 344
Stenocereus thurberi, extracts, effects, *Drosophila mojavensis* 344
Stenocraninae, morphology, reproductive organs 3264
Stenocranus minutus
ecology, population dynamics 9545
grasslands, UK 9545
Stenogastrinae, evolution 2152
Stenohippus
ecology, population dynamics 3469
Pakistan 3469
parasitoids 3469
Stenoma assignata, *Copaifera langsdorfii*, Brazil 2962
Stenoma cecropia (see *S. impressella*)
Stenoma decora, pathogens 6684
Stenoma impressella
control, insecticides 1543
oil palms, Colombia 1543
Stenomelissa
biology 1032
taxonomy 1032
Stenonabis tagalicus
biology, phenology 4659
prey, *Nilaparvata lugens* 4659
rice, fields, India 4659
Stenopogon inquinatus
biology, behaviour 10346
Montana 10346
Stenopopia italica quinquepilosa, pastures, Spain 7678
Stenotaphrum secundatum, *Blissus insularis*, resistance 11593
Stenotus rubrovittatus
biology 3728
sorghum, Japan 3728
Stephanitis pyri
biology, environmental factors 7731
pome fruits, Iraq 7731
Stephanitis pyrioides
control, insecticides 8814
Rhododendron, Maryland 8814
Stephanitis typica, bananas, India 1592
Stephanoderes sundaensis, taxonomy, synonyms, of *Hypothenemus fuscicollis* 804
Stephanomeria virgata, *Neaspilota*, California 3635
Sterculia campanulata, *Rhadinomerus sulcipennis*, India 7059
Sterculiaceae, *Catorhintha*, America 349
Steremnius carinatus
plant pathogens, transmission 10923
Pseudotsuga menziesii 10923
Sterile insect release
models 279, 7163
Anthonomus grandis 4924, 5881
arthropod pests 1375
Bactrocera 3750
Bactrocera cucurbitae 5745, 6133
Ceratitidis capitata 578, 9365
Sterile male technique (see *Sterile insect release*)
Sterna aurantia, prey, *Helicoverpa armigera* 3891
Sternochetus frigidus, sterilization 6387
Sternochetus gravis (see *S. frigidus*)
Sternochetus mangiferae
distribution, maps 6460
mangoes 6460
Stethorus
apples, orchards, Italy 5728
prey
Panonychus ulmi 5728
Tetranychus urticae 8630
stone fruits, orchards, Queensland 8630
Stethorus darwini, control, *Panonychus ulmi* 2733
Stethorus loi, prey, *Panonychus citri* 2772
Stethorus punctillum
apples, orchards, Italy 5735
biology, phenology 4498
China 4498
control, *Panonychus ulmi* 5735
Stethorus punctum
biology 4783
Citrus, orchards, USSR 4783
prey, *Panonychus citri* 4783
Stethorus siphonulus
Citrus, orchards, China 11662
control, *Panonychus citri* 11662
Sticholotidinae, taxonomy 8895
Sticholotis madagassa
control, *Melanaspis glomerata* 7584
prey, *Diaspididae* 2469
rearing techniques 2469
sugarcane, plantations, India 7584
Sticholotis marginalis
India 11433
prey, *Quadrastipidiotus perniciosus* 11433
Sticholotis medagasa, control, *Quadrastipidiotus perniciosus* 11433
Sticholotis quadrisignata
control, *Pseudaulacaspis pentagona* 581
passion fruits, habitats, Western Samoa 581
Sticholotis substriata
fields, India 7643
prey, field crops, insect pests 7643
Stictia signata
distribution, Chile 1340
taxonomy 1340
Stigmaeidae
apples
Ontario 4753
orchards, Massachusetts 10704
biology 575, 11625
ecology, population dynamics, models 4753
grapefruits, orchards, Cuba 575
grapes, Hungary 11625
groundnuts, fields, Egypt 662
predators 4753
prey
arthropod pests 662
mites 575
woody plants, habitats 10469
Stigmaterol, effects, *Helicoverpa armigera* 79
Stigmatomyces scaptomyzae, hosts, *Scaptomyza pallida* 6257
Stigmella
distribution, New Zealand 6462
parasitoids 10972
Populus, Poland 7953
Quercus, Japan 10972
taxonomy 6462
Stigmella alnetella
Denmark 1830
food plants 1830
genetics, alleles 1830
Stigmella betulicola group
Denmark 1830
food plants 1830
genetics, alleles 1830
Stigmella confusella
Denmark 1830
food plants 1830
genetics, alleles 1830
Stigmella continuella
Denmark 1830
food plants 1830
genetics, alleles 1830
Stigmella crataegella
Crataegus 3431
distribution, Poland 3431
Stigmella dorsiguttella
distribution, Poland 3431
Quercus robur 3431

- Stigmella lapponica***
Denmark 1830
food plants 1830
genetics, alleles 1830
- Stigmella lapponica* group**
Denmark 1830
food plants 1830
genetics, alleles 1830
- Stigmella luteella***
Denmark 1830
food plants 1830
genetics, alleles 1830
- Stigmella malella***
apples, German Democratic Republic 559, 2740
ecology, population dynamics 559
parasitoids 559, 2740
sampling 4420
- Stigmella marginicolella* group**
Denmark 1830
food plants 1830
genetics, alleles 1830
- Stigmella microtheriella***
Denmark 1830
food plants 1830
genetics, alleles 1830
- Stigmodera suturalis*, *Casuarina stricta***, Australia 4007
- Stigmoderini**
morphology, reproductive organs 8199
taxonomy 8199
- Stillwell's Syndrome**, Coleoptera, associations 4047
- Stilpnotia salicis* (see *Leucoma salicis*)**
- Stings**, Hymenoptera 4499-4500
- Stirellus picinus***
host plants, Argentina 6764
monitoring, traps 6764
- Stiretrus anchorago***
cotton, fields, Mississippi 1734
Maryland 248
pheromones 248
prey
insects 3556
Lygus lineolaris 1734
sunflowers, fields, Texas 3556
- Stirofos* (see *Tetrachlorvinphos*)**
- Stolas fuscata***
control, *Baccharis salicifolia*, evaluation 4588
food plants 4588
- Stone fruits**
arthropod pests
control, pesticides 11115-11116
Sardinia 11620
Sicily 11655
commodities, Tortricidae 8962
Panonychus ulmi, Chile 4732
pest resistance 2110
- Stored products**
arthropod pests
control, pesticides 11115-11116
Florida 4166
Bruchidae 1918
Coleoptera 6029
identification 7272
USA 11019
entomology, reviews 7081
Ephestia calidella 2702
Glycyphagidae, Poland 7092
insect pests
identification, books 4232
Italy 2556
losses 3056-3057
insecticide residues 1893
pest control 3474, 11035
books 11261
German Federal Republic 4054, 4159
natural resources 3217
reviews 1897
pesticides, residues, books 10184
Ptinus tectus 10021
Sitophilus oryzae, India 7967
Tyrophagus savasi, UK 11024
yield losses 3141
- Stored products pests**
books 11261
control 3048, 4070, 7256, 11037
fumigants 1004, 8934
insecticides 4069
- Stored products pests cont.**
Denmark, reports 5247
detection 869, 4080
detectors 11040
ecology, succession 3052
fungi, interactions 3051
insecticides
effects 3051
resistance 6029
toxicity 846, 6033
Iran 7088
monitoring 3048, 4238
traps 847
natural enemies 11033
parasitoids 3563, 6592
pathogens 7097
pest control 10223
physiology, water relations 6370
plant extracts, effects 5082, 5234
Psocoptera, interactions 1902
quarantine
German Federal Republic 3049
Pakistan 6025
USSR 869
sampling 11018
USSR 8934
- Stores**, Formicidae, Denmark 1233
- Stragania alabamensis***
Gleditsia triacanthos, Ohio 10951
sampling 10951
- Strangalia quadrfasciata***
Betula, logs, Finland 5916
monitoring, traps 5916
- Stratiolaelaps miles***
biology 223
prey, *Rhizoglyphus echinopus* 223
- Stratiomyidae**, yams, commodities, habits, India 7089
- Strawberries**
Acari, Switzerland 5700
Anthonomus rubi
Austria 8557, 10672
Poland 8558
Switzerland 5705
USSR 501
Aphididae
Norway 10674
Poland 8558
Aphis gossypii, Japan 7761, 9741
arthropod pests, Italy 11621
Chaetosiphon fragaefolii, German Federal Republic 1546
Deroceras reticulatum, Quebec 505
fields, *Amblyseius reductus*, USSR 502
habitats, *Neoseiulus californicus*, California 9646
Helicoverpa zea, California 4712
insect pests, control, integrated control 11622
insects, pollination 2705
Lygus 1547
Lygus lineolaris, Quebec 6786, 9651
pest control 503, 2703, 9017
Italy 2704
Switzerland 5699, 5701-5705
USSR 484, 7715
Washington 5698
pests, Belgium 10673
Philaenus spumarius, USA 8556
Phytonemus pallidus, California 504
Polydrusus cervinus, Quebec 2989
Tetranychidae, Japan 9748
Tetranychus urticae
Costa Rica 4713
New Zealand 6785
resistance 9652-9653
USSR 502
Washington 9654
Trialeurodes vaporariorum, Japan 5706
viruses, vectors, arthropods 5703
- Strawberry crinkle rhabdovirus**, vectors, *Chaetosiphon fragaefolii* 1546
- Streams**, insecticides, residues 7228, 8133, 8892
- Street trees**, Isoptera, damage 1779
- Strepsiptera**
biology 4473
hosts 4473
Hemiptera 8514, 9438
morphology 4473
- Strepsiptera cont.**
reviews 4473
rice, fields, India 8514
taxonomy 4473
UK 9438
- Streptocalyx***, seeds, *Camponotus femoratus*, Peru 10402
- Streptocarpus***, Aphididae, German Federal Republic 11786
- Streptococcus faecalis***, hosts, *Lymantria dispar* 11064
- Streptococcus faecium* (see *Enterococcus faecium*)**
- Streptomyces***
characteristics 10481
insecticidal properties 8149
Termitidae, symbiosis 10481
- Streptomyces viridosporus***
characteristics 10481
Termitidae, symbiosis 10481
- Stress**, ecosystems, conferences 1020
- Striga***
control, biological control 9489
natural enemies 9489
- Striga hermonthica***
biological control agents, evaluation 9489
Ethiopia 9489
- Strigoptera bimaculata***, *Ceriops tagal*, Australia 4007
- Strip cropping**, effects, meadows, arthropods 4681
- Strobilomyces***, *Pallodes* 600
- Strobilomyia***, parasitoids 5053
- Strobilomyia anthracina***
biology, environmental factors 5992
control
insecticides 7913
microbial pesticides 7916
pathogens 5997
Picea abies, France 5992
Picea glauca
Alberta 7913
Canada 7916
Ontario 5997
- Strobilomyia infrequens***, *Larix*, Finland 5053
- Strobilomyia laricicola***
biology, diapause 5995
Larix, Finland 5053
- Strobilomyia melania***
Larix, France 6008
monitoring 6008
- Strobilomyia sibirica***, *Larix*, Finland 5053
- Strongygaster triangulifera***
Chile 2463
hosts, *Bruchus pisorum* 2463
- Strongylocentrotus***, insecticides, effects 6198
- Strongylognathus koreanus***
distribution, Japan 2410
Tetramorium caespitum, interactions 2410
- Strymon melinus***
identification 6893
morphology, eggs 6893
soyabeans, Florida 6893
- Strymonidia iyonis***
parasitoids 2957
Prunus saliciana, Japan 2957
- Strymonidia w-album***
parasitoids 2957
Ulmus davidiana, Japan 2957
- Sturmia***
hosts, *Rivula* 8713
soyabeans, fields, India 8713
- Sturmia inconspicua***
hosts, *Amsacta albistriga* 2846
insecticides, effects 2846
- Sturmiopsis inferens***
biology, environmental factors 2592
granulosis viruses, interactions 4483
hosts
Chilo auricilius 2592, 8452
Chilo infuscatellus 4483
Lepidoptera 6685
India 6685
parasitoids 8452
rearing techniques 6685
sugarcane, plantations, India 2592, 8452

- Sturnus roseus***
prey
Achaea janata 8765
Acrididae 9368
- Sturnus vulgaris***, insecticides, toxicity 8126
- Styginae**
morphology, legs 1049
phylogeny 1049
- Styloleptus rhizophorae***
mangroves, Belize 1401
taxonomy, new species 1401
- Stylommatophora***, taxonomy 9145
- Stylopidia***, morphology 4473
- Stylosanthes guianensis***, insect pests, Ivory Coast 1522
- Styloxus bicolor***
biology 9935
Juniperus monosperma, Arizona 9935
- Styrax japonica***
Ceratovacuna nekoashi, galls 3022
extracts, effects, *Helicoverpa assulta* 8786
- Suaeda fruticosa***
Aceria caulobius, galls 3628
habitats, *Typhlodromus exilaratus*, Italy 3628
- Subalpine fir** (see *Abies lasiocarpa*)
- Subtropical fruits**, pest resistance 2110
- Subtropics**, pest control, natural resources 3217
- Subulinidae**, physiology, excretory system 9216
- Sucra jujuba***
control 1569
ecology, population dynamics 1569
forecasting 1569
Ziziphus sativa, China 1569
- Sucrose**
effects, *Anthonomus grandis* 8772
synergism 9660
- Sudan**
Agonoscelis versicolor 8693
agricultural research, reports 2118
Bemisia tabaci 6965
Chrysomelidae 7167
cotton
Hemiptera 9885
insect pests 7167
pest control 6966-6967
entomology, reports 7298
Microtermes 5510, 8396
pest control 6625
Sesamia cretica 6687
Sphenoptera chalcichroa 1881
Therioaphis trifolii, parasitoids 4701
- Sudan grass** (see *Sorghum sudanense*)
- Sugarbeet** (*Beta vulgaris* var. *saccharifera*)
Aphididae 5770
German Democratic Republic 8447
Hungary 8446
UK 6245
- Aphis fabae***
German Federal Republic 681, 683
resistance 1677
arthropod pests 8728, 11738
control, insecticides 11739
Europe 11739
German Democratic Republic 7550
Italy 11637
arthropods, German Federal Republic 4873
- Atomaria linearis***
damage 682
German Federal Republic 1676
USSR 677
- Bothynoderes punctiventris***
USSR 2857-2858, 8730
Yugoslavia 6912
- Coleoptera**, USSR 2856
- Curculionidae**, economic thresholds 674
- Elateridae**, Italy 8483
- Eumerus***, Wyoming 5836
- fields**
Aprostocetus bruzzonis, USSR 2856
arthropods, German Federal Republic 4873
Carabidae, German Federal Republic 2599
predatory arthropods, German Federal Republic 680-681
- Sugarbeet cont.**
fields cont.
predatory insects, German Federal Republic 683, 2597
- insect pests**
German Federal Republic 4160
Italy 10220, 10818
USSR 8313
reviews 2860
- insecticides**
effects 3195, 3898, 9824, 11740
release 10817
Lixus incanescens, Iran 684
Lixus juncii 6458
Lygus rugulipennis, Finland 9486
Mamestra brassicae, Japan 3895
Myzus persicae 5837
German Democratic Republic 673
UK 4874, 5838
Pegomya betae, UK 5464
Pemphigus fuscicornis
damage 675
USSR 4871
yield losses 7814
Pemphigus populivinae, California 8732
pest control 10814-10816
Czechoslovakia 8731
Europe 11737
German Democratic Republic 679
German Federal Republic 7260, 8055
Irish Republic 9138
Italy 8729
UK 2859
USSR 678, 3897-3898
Wyoming 9823
- pests**, Iran 3896
research, conferences 12033
soil, microorganisms, insecticides, effects 6820
Spilosoma obliqua, varietal susceptibility 685
Spodoptera exigua, Iran 3370
Tetanops myopaeformis, economic thresholds 5839
- Sugarcane** (*Saccharum officinarum*)
Abacarus sacchari, Cape Verde 9525
Aclerda takahashii 6457
Aeneolamia varia, Trinidad and Tobago 6694
Aleurolobus barodensis, India 5586
Antitrogus parvulus, Australia 6688
arthropod pests 9133
Africa 1011
India 12021
Mauritius, reports 364
Pakistan 7586
Asia 3416
Aulacaspis madiunensis 6692
Aulacaspis tegalensis 2469
Bissetia steniella
India 1423
Pakistan 5588
Busseola fusca, Africa 6459
Castnia licus, Brazil 6684
Cavelerius saccharivorus, Japan 5587
Cavelerius sweeti, India 4606, 4610
Chilo auricilius, India 334, 2592, 5585, 8452
Chilo infuscatellus 6690
Cicadulina mbila 6455
Diatraea
Brazil 8450
Cuba 8451
Diatraea saccharalis 10543
Brazil 4605, 4608, 8448, 10548
damage 8449
Louisiana 9609
diseases, books 2099
Eldana saccharina
nitrogen 5590
South Africa 365
fields, *Trichogramma chilonis*, China 2457
habitats, parasitoids, India 9527
Hawaii, reports 8182
Hemiptera, Pakistan 4611
Holotrichia serrata, India 359
Hoplochelus marginalis, Reunion 3645
insect pests 6460
- Sugarcane cont.**
insect pests cont.
America 10549
Brazil 5160
China 2457, 6696
control, biological control 2457
damage 2099
India 6689
Louisiana 6683
Pakistan 4604
South Africa 1422
Isoptera, damage 6695
Lepidoptera, India 6685
Leucopholis lepidophora 6693
Ligyris subtropicus
damage 7587
Florida 4609
Lixus subtilis, USSR 676
Matsumuratettix hiroglyphicus, Thailand 8453
Melanaspis glomerata
India 2593, 7584
varietal susceptibility 1424
Melolonthinae, Queensland 3646
Mythimna separata 355
India 7653
Nilaparvata lugens 9589
Oligonychus grypus
Cuba 10544
damage 10545
Pentodon idiota, Iran 363
Perkinsiella saccharicida 6456
pest control 8182
books 6229
plantations
Allorhogas pyralophagus
Brazil 8448
India 9528
Mauritius 364
Azotus fumipennis, India 2593
beneficial insects, Brazil 4605
Cheiloneurus pyrrillae, India 5589
Coccinellidae, India 7584
Cotesia flavipes, India 334
Diagonogastra, North America 5584
Epiricania melanoleuca, India 361, 1425, 2595, 6689, 7585
Neoseiulus californicus, Cuba 10544
Paederus fuscipes 5656
parasitoids, India 8452
predatory insects, Louisiana 6683
Solenopsis invicta, Louisiana 362
Sturmiopsis inferens, India 2592
Ptyleus nebulosus, varietal susceptibility 2594
Pyralidae
India 9528
North America 5584
Pyrrilla, Pakistan 4603
Pyrrilla perpusilla 1207, 4429, 6691
India 361, 2595, 5589, 5592, 7585
research, Mauritius, reports 11278
Rhynchophorus 11618
Ricania zebra, India 1425
Saccharosydne saccharivora 9522
Scarabaeidae, India 320, 3647
Scirpophaga excerptalis, India 9527, 9529
Scirpophaga nivella, yield losses 10547
Sesamia cretica, Sudan 6687
Sesamia inferens 2627
South Africa
conferences 7583
reports 9133
Thysanoptera, Japan 9526
- Sugarcane Fiji disease fijiavirus**, vectors, *Perkinsiella saccharicida* 6456
- Sugarcane mosaic potyvirus**, vectors, *Saccharosydne saccharivora* 9522
- Sugarcane white leaf disease**, vectors, *Matsumuratettix hiroglyphicus* 8453
- Suidasia medanensis***, *Suidasia nesbitti*, differentiation 1894
- Suidasia nesbitti***
biology 1894
morphology 1894
Suidasia medanensis, differentiation 1894

Suillia lurida

control, cultural control 7831
garlic, Hungary 7831
monitoring, traps 7831

Suillia univittata (see *S. lurida*)**Sulawesi**, Lepidoptera 2340**Sulcatol**, pheromones, *Gnathotrichus sulcatus* 11822**Sulfamethoxazole**, effects, *Trichogramma* 10477**Sulfonamides**, effects, Aphididae, symbionts 4844**Sulfoxide** (5-[2-(octylsulfinyl)propyl]-1,3-benzodioxole)
synergism 11169**Sulfur**

control

Acari 1254
Aculops lycopersici 6942, 10847
Callosobruchus chinensis 11888
Dolichotetranychus floridanus 8657
Oligonychus indicus 2664
Phyllocoptura oleivora 1586
Polyphagotarsonemus latus 7746
Tetranychus macfarlanei 2795, 3841, 11761
Tetranychus neocaledonicus 3919
Tetranychus urticae 6995

effects

Bruchidius atrolineatus 7111
Cheletogenes ornatus 5749

mixtures

control, *Oligonychus indicus* 2664
nontarget effects, *Kampimodromus aberrans* 5715

nontarget effects, predatory insects 520
toxicity, *Cycloneda sanguinea* 9453, 9721, 10462

with carbaryl

control

Amrasca biguttula 8669
Amrasca devastans 7842
Tetranychus macfarlanei 2795, 11761

Sulfuryl fluoride

toxicity

Coptotermes formosanus 2528
stored products pests 11013

Sulphuretylenchus, hosts, Scolytidae 8848**Sulphuretylenchus nopimingi**, hosts, *Pityokteines sparsus* 7055**Sulphuretylenchus posteruteri**

biology 8844

hosts, *Ips perroti* 7055, 8844

Sulphuretylenchus pseudoundulatus

biology 8844

hosts, *Polygraphus rufipennis* 7055, 8844

Sulprofos (O-ethyl O-[4-(methylthio)

phenyl] S-propyl phosphorodithioate)
control, *Bothynoderes punctiventris* 2857

effects, *Microgaster rufiventris* 1722

resistance, *Spodoptera littoralis* 1064

toxicity

Bemisia tabaci 6974
Choristoneura occidentalis 3002
Heliothis virescens 11976
Spodoptera littoralis 1722
with triflumuron, resistance,
Spodoptera littoralis 2905

Sultanas (see Raisins)**Sumi-alpha** (see Esfenvalerate)**Sumicidin** (see Fenvalerate)**Sumidan** (see Fenitrothion, with lindane)**Sumithion** (see Fenitrothion)**Sumithrin** (see Phenothrin, (1R)-cis-trans-)**Summer squashes** (see *Cucurbita maxima*;
Cucurbita moschata; *Cucurbita pepo*)**Sundapteryx biguttula biguttula** (see
Amrasca devastans)**Sunflower oil**

toxicity

Sitophilus oryzae 7110
Sitophilus zeamais 7102

Sunflowers (*Helianthus annuus*)

Agapanthia dahlia, Hungary 4910

Agrotis, yield losses 4911

arthropod pests, Italy 11636

attractants, *Macrocentrus grandii* 5613

Sunflowers cont.

Chlosyne, Texas 3556

Chromatomyia horticola, Hungary

9864

Cochylis hospes

damage 4913

USA 7851

commodities

Coleoptera, German Federal

Republic 3049

insecticides, toxicity 4912

Cylindrocopturus adpersus 7850

North Dakota 2899

Diabrotica, Pennsylvania 9550

extracts

control, *Phaseolus vulgaris*, insect

pests 8697

effects, *Homoeosoma electellum*

9863

fields

Carabidae, Spain 5600

Diglyphus isaea, Hungary 9864

Misumena vatia, Mississippi 8544

parasitoids, North Dakota 2899

Stiretrus anchorago, Texas 3556

Helicoverpa armigera 596

Australia 11164

India 9865

Hemiptera, damage 3924

Hilda patruelis 6458

insect pests

control, insecticides 3923

Mississippi 8544

insects, pollination 5869

Meligethes aeneus, Finland 5786

Neotephritis finalis, damage 8767

pest control, Zimbabwe 1600

pollen, effects, *Homoeosoma electellum*

9863

Smicronyx 10255

Smicronyx fulvus 4909

Spilosoma obliqua 595

Spodoptera litura 6855

Thysanoplusia orichalcea 736

Sunn hemp (*Crotalaria juncea*)

arthropod pests, India 12021

mulches, control, Isoptera 7095

pesticides, effects 1523

Utetheisa pulchella, India 9887

Superphosphate, mixtures, toxicity,

Spilosoma obliqua 1953

Supervised control

Citrus, arthropod pests 7748

grapes, arthropod pests 2713

insect pests 3134

sugarbeet, insect pests 8729

Supracide (see Methidathion)**Suscon Fu Ming** (see Phorate)**Sweden**

Acari 1836

Agrotis segetum 8540

Aphididae 9831, 11804

Aradidae 4998

Arianta arbustorum 5544

Bactra suedana 11599

bilberries, insect pests, predators 7714

Carabidae 366, 4623

Cerambycidae 11264

Coleoptera 4268

Contarinia pisi 647-648

crops, pest control 3120

Delia floralis 6938

Dermaptera 4387

Dioryctria abietella 5996

Epirrita autumnata 10003

Euphranta connexa 7563

forests, arthropods 10946

Geometridae 7033

greenhouse crops, arthropod pests 6170

Hylobius 8873

Hylobius abietis 5980, 10920

insecticides, testing 8071

insects, checklists 6453

Ips typographus 791, 4249-4250,

11845, 11850, 11852

ectoparasites 1836

Lepidoptera 4409-4410

Leptothorax acervorum 1843

Malacodea regelaria 5057

Meligethes aeneus 1615, 3847, 4821

parasitoids 3849

Sweden cont.

Neodiprion sertifer 3014-3015

natural enemies 5006

pathogens 4030, 5078

oilseed plants, conferences 2802

Pieris napi 7564

Pinus sylvestris, Coleoptera 803

Pipunculidae 4491

Polygonia c-album 6650, 2327

Psylliodes chrysocephala 3850

rape, pest control 2801

Rhopalosiphum padi, predators 8472

Scolytidae 801

Tenthredinoidea 4997

Tomicus 1778

Tomicus piniperda 5037, 9986, 10973

Swedes (*Brassica napus* var. *napobrassica*)

Delia floralis

Sweden 6938

varietal susceptibility 10838

Delia radicum

Manitoba 8749

UK 8749

Sweet cherries (see Cherries)**Sweet oranges** (see Oranges)**Sweet potato mild mottle potyvirus**, vectors,

Aleyrodidae 11084

Sweet potatoes (*Ipomoea batatas*)

Asia 3416

Bryobia desertorum 2562

Coleoptera

Georgia 1698

Japan 9837

commodities, *Cylas formicarius* 8937

Cylas formicarius

Florida 9838

Taiwan 4889, 6931, 10835

varietal susceptibility 707, 709

Diabrotica balteata, varietal suscepti-

bility 9822

East Africa, conferences 6238

Elateridae 7826

extracts

effects, *Cylas formicarius* 708

oviposition attractants, *Cylas formi-*

carius 4888, 6930

insect pests 6238

biology 7827

control 7827

Cuba 5548

damage 7827

natural enemies 7827

resistance 8177

Maladera matrida, Israel 3909

Omphisa anastomosalis, Japan 9836

pest control, Asia, reports 2119

Spartocera batatas, Cuba 1699

Spilosoma obliqua 2782

Tetranychus urticae 1697

Swietenia

habitats, parasitoids, Florida 7943

Macalla thyrissalis, Florida 7943

Swietenia macrophylla

Crossotarsus externedentatus 6457

extracts, deterrents, *Diabrotica*

undecimpunctata 1414

Swietenia mahagoni, *Macalla thyrissalis*,

Florida 7943

Switzerland

Aculus schlechtendali 10708

Adoxophyes orana 3751, 10712

Agrotis ipsilon 4167

Aphididae 3651, 4411, 10830

Apidae, parasitoids 9395

Apis mellifera 3751, 5699

ectoparasites 2507

apples

arthropods 2742, 8616

pest control 6816

Araneae 1516, 5499

prey 1517

cereals, pest control 6699

Chlorops pumilionis 10570

Corythucha ciliata 5965

crops, pest control 12036

Cydia lobarzewskii 5737, 8581

Cydia pomonella 3798

pathogens 4757

Drepanothrips reuteri 10683

predators 11624

Drosophila subobscura 5352

Switzerland cont.

- Dryinidae 11450
Epinotia pygmaea, pathogens 10988
Eupoecilia ambiguella 6797
Formica lugubris 9386
Formicidae 5437, 9387-9388, 11426
Frankliniella occidentalis 5774
fruit trees, insect pests 5720
grapes, pest control 6796
greenhouse crops, arthropod pests, predators 5799
Hylotrupes bajulus 8957
insects 142
integrated control 7166, 8062
Janetiella pyriformis 4531
Lasius niger 9328
Lepidoptera 159
maize, pest control 6719
meadows, invertebrates 463
Meligethes aeneus 3848, 9762
orchards, arthropods 10660
Panonychus ulmi 4722
pears, insect pests, predators 4762
pest control 7164
Phyllonorycter cydoniella, parasitoids 2736
Pieridae 7312
plant protection, conferences 8189
Plebejus argus 9328
Pontania 4039
Psila rosae 4879
Rhopalocera 160
rivers
insecticide residues 9095
pollutants 11223
small fruits, pest control 5699-5705, 5707-5708, 5723
Staphylinidae 4379
Tephritidae 2570
Tetranychidae, predators 3789
Tetranychus urticae 8575
Thysanoptera 5774
Tortricidae 8613
vegetables, pest control 3894
vineyards, arthropods 5714
wheat, fields, arthropods 374
Xylosandrus germanus 1909
- Sycophila**
forests, China 7937
hosts, *Torymus sinensis* 7937
- Sycophila concinna**
forests, China 7937
hosts, *Torymus sinensis* 7937
- Sylepta derogata** (see *Syllepte derogata*)
- Syllepte derogata**
biology
development 3843
phenology 1744
control, insecticides 755, 6962
cotton
China 1740
Pakistan 755
jute, Pakistan 1744
natural enemies 1744
okras, Nigeria 3843
- Symbionts**, insects, antimicrobial properties 3104
- Symbiotaphrina kochii**, *Lasioderma sericorne*, symbiosis 4382
- Symphoricarpos orbiculatus**, fruits, *Rhyzopertha dominica* 11874
- Symphyla**
pathogens 8980
prey, Nematoda 10639
soil, Colorado 10639
- Symphylida**
Canada 3247
India 12021
taxonomy, keys 3247
- Symphyta**
Betula pubescens, Finland 10969
bilberries, Sweden 7714
ecology, population dynamics 10969
ectoparasites 1030
predators 7714
taxonomy 4254
keys 1010
- Sympiesis marylandensis**
apples, orchards, Connecticut 10705
hosts
Gracillariidae 1330, 10705

Sympiesis marylandensis cont.

- hosts cont.
Phyllonorycter blancardella 4502
New England 1330
rearing techniques 4502
- Sympiesis sericeicornis**
apples, orchards, Switzerland 2736
biology, behaviour 541, 2736
hosts, *Phyllonorycter cydoniella* 2736
- Symposia** (see Conferences)
- Symydobius oblongus**, *Betula pubescens*, Finland 7077
- Synalocha gutierreziae**, New Mexico 10515
- Synanthedon acerrubri**
attractants 8875
biology, seasonal fluctuations 8875
habitats, Georgia 8875
- Synanthedon decipiens**, habitats, Georgia 8875
- Synanthedon exitiosa**
fruit trees 10691
pheromones 10691
- Synanthedon hector**
fruit trees 10691
pheromones 10691
- Synanthedon hylaeiformis** (see *Pennisetia hylaeiformis*)
- Synanthedon myopaeformis**, distribution, Switzerland 142
- Synanthedon pictipes**
fruit trees 10691
pheromones 10691
- Synanthedon scoliaeformis**
Argyresthia glaucinella, differentiation 9967
Betula pubescens 9969
distribution, UK 9969
- Synanthedon tipuliformis**
control 10670
monitoring, traps 8560
morphology, sense organs 6281
pheromones 8560
small fruits
Australasia 8560
German Democratic Republic 10670
Hungary 8560
- Syncharina punctatissima**
host plants, Argentina 6764
monitoring, traps 6764
- Synechococcus elongatus**, insecticides, toxicity 12003
- Synegia**
biology, phenology 7846
Piper nigrum, India 7846
- (-)Synephrine, mixtures, attractants, *Papilio protenor* 7750
- Synergus clandestinus**
distribution, UK 7436
taxonomy 2140
- Synergus crassicornis**, taxonomy 2140
- Synergus crassicornis group**, taxonomy 2140
- Synergus dacianus**
Quercus cerris, Romania 2140
taxonomy, new species 2140
- Synergus evanescens** (see *S. crassicornis*)
- Syngrapha gammoides**
control 8663
globe artichokes, Chile 8663
- Synnoma lynosyrana**, New Mexico 10515
- Syntomeida epilais**
Nerium oleander, Guadeloupe 3959
pheromones 3959
- Syntretomorpha szaboi**
hosts, *Apis cerana* 6553
taxonomy 6553
- Sypna picta**
fruit trees, Korea Republic 3747
monitoring, traps 3747
- Syria**
Aphididae 5596, 7790
Apion arrogans 5804
Bruchus dentipes 3871
Gramineae, insect pests 4652
Propomacrus bimucronatus 7440
Zanchius stani 3245
- Syringa reticulata**, *Argopistes coccinelliformis*, Japan 8803

Syringa villosa, *Leptopypha mutica*, Pennsylvania 1758*Syringa vulgaris* (see Lilac)

Syrphidae

- apples, orchards, India 1561
biology 1304, 10471, 11471
behaviour 4808, 8350
broccoli, fields, California 6863
cereals, fields, Poland 8466
distribution
China 10229
Malta 11398
Spain 6547, 11471
UK 2475
ecology, population dynamics 6563
Ethiopia 10554
food plants 6563, 8350
habitats
German Democratic Republic 10470
UK 8350
India 5496
Italy 2489
monitoring, traps 4808
morphology
eggs 2165, 4278
wings 3261, 6279
peas, fields, USSR 649
pecans, orchards, Georgia 3774
pesticides, effects 681, 3765
prey
Acyrtosiphon pisum 649
Aphididae 683, 1433, 2617, 3774, 5496, 8466, 8468, 10554
Aphis pomi 1561
Brevicoryne brassicae 6863
Schizaphis graminum 9540
Sitobion avenae 8470
sugarbeet, fields, German Federal Republic 681, 683
taxonomy 2165
keys 2489
UK 6563, 10471
vegetables, fields, UK 4808
vineyards, Austria 3765
wheat
fields
German Federal Republic 1433, 2617, 8468
Romania 9540
UK 8470
- Syrphinae**
biology, behaviour 3549
Italy 2489
morphology, reproductive organs 3549
taxonomy, keys 2489
- Syrphophagus**
cauliflowers, fields, India 10772
hosts, *Eupeodes confrater* 10772
- Syrphophagus cecidium**
hosts, *Trioxa* 1880
Myrcia itambensis, forests, Brazil 1880
taxonomy, new species 1880
- Syrphophagus taiwanus**
hosts, *Diaphorencytus aligarhensis* 4784
Taiwan 4784
taxonomy, new species 4784
- Syrphus**
India 2705
prey, *Aphis gossypii* 4915
Solenopsis invicta, interactions 4915
strawberries, pollination 2705
- Syrphus corollae** (see *Eupeodes corollae*)
- Syrphus vitripennis**
biology, behaviour 2679
Japan 1863
prey
Aphididae 2679
Toxoptera odinae 1863
Vicia sativa, fields, Japan 2679
- Systelopini**
Australia 8200
taxonomy 8200
- Systema**
control, insecticides 1698
sweet potatoes, Georgia 1698
- Systema basalis**
biology
environmental factors 4376
sex ratio 4850

- Systema basalis* cont.
control, integrated control 634
Cuba 4376
food plants 4376
Phaseolus vulgaris, Cuba 634, 4850
- Systema s-littera*
plant pathogens, transmission 11716
Vigna unguiculata, Trinidad and Tobago 11716
- Systoate (see Dimethoate)
- Systole albipennis*
commodities 11898
control, fumigants 870, 11898
culinary herbs, commodities 870
damage 4876
Umbelliferae, Chile 4876
- Systropus pelopoeus*
hosts, *Parasa viridissima* 1542
Nigeria 1542
- Syzygium*, *Eriophyes afroensis*, South Africa 9674
- Syzygium aromaticum* (see Cloves)
- Syzygium cumini*, *Fergusonina syzygii*, galls 5759
- 2,4,5-T, effects, *Pieris brassicae* 4199
- Tachardiaephagus kashmirensis*, taxonomy, synonyms, of *Tachardiaephagus tachardiae* 2459
- Tachardiaephagus tachardiae*, taxonomy, synonyms, *Tachardiaephagus kashmirensis* 2459
- Tachinidae**
Ammi visnaga, habitats, California 6642
biology 8051
behaviour 3502
environmental factors 6441
Cape Verde 262
checklists, Chile 2346
China 1334
distribution, Italy 7434
fire, effects 7670
forests
Czechoslovakia 2097
Hungary 5017
USSR 1802
grasslands, Utah 7670
hosts
arthropod pests 8051
Cerapteryx graminis 1520
conifers, insect pests 5985
Datana integerrima 2717
Dendrolimus tabulaeformis 1334
Galleria mellonella 253
Lepidoptera 262
Lygaeidae 7569
Lymantria dispar 5017
Neodiprion sertifer 5006
Noctuidae 6749
Ochropleura fennica 10925
Pikonema alaskensis 6441
insecticides, effects 1802
monitoring, traps 3456, 7670
Netherlands 1520
sorghum, fields, USA 6749
Sweden 5006
walnuts, orchards, Mexico 2717
- Tachinobia repanda*
hosts, *Bessa remota* 2701
Malaysia 2701
- Tachinus rufipes*, habitats, German Federal Republic 2597
- Tachydromia annulipes*
biology, behaviour 9989
Fagus sylvatica, hedges, UK 9989
prey, *Phytomyza ranunculi* 9989
- Tachypompilus ferrugineus nigrescens*
biology, behaviour 9406
New York 9406
prey, Lycosidae 9406
- Tachyporus**
barley, fields, Sweden 8472
biology, overwintering 8472
prey, *Rhopalosiphum padi* 8472
- Tachyporus chrysomelinus*
Tachyporus dispar, differentiation 2498
taxonomy 2498
- Tachyporus dispar*
Tachyporus chrysomelinus, differentiation 2498
taxonomy 2498
- Tachyporus obtusus*
cereals, fields, Denmark 4616
prey, Aphididae 4616
- Tachypterellus*, taxonomy, synonyms, of *Anthonomus* 8201
- Tachypterellus consors*, taxonomy, to *Anthonomus* 8201
- Tachypterellus consors cerasi*, taxonomy, synonyms, of *Anthonomus consors cerasi* 8201
- Tachypterellus quadrigibbus magnus*, taxonomy, synonyms, of *Anthonomus quadrigibbus magna* 8201
- Tachypterellus quarigibbus*, taxonomy, to *Anthonomus* 8201
- Tachypterus*, taxonomy, synonyms, of *Anthonomus* 8201
- Tachysphex**
biology, behaviour 5363
Spain 5363
- Tachysphex pompiliformis*, Spain 7320
- Taeniothrips**
apples, India 3784
control, insecticides 3784
- Tagetes**
Autographa gamma, Japan 7894
Meligethes aeneus, Finland 5786
- Tagetes erecta*, *Aceratagallia sanguinolenta*, Minnesota 10885
- Tagetes populi*, *Liriomyza trifolii* 7893
- Tagosodes*, taxonomy, new genus 7310
- Tagosodes cubanus*, taxonomy, from *Sogatodes* 7310
- Tagosodes orizicolus*, taxonomy, from *Sogatodes* 7310
- Tagosodes pusanus*, taxonomy, from *Sogatella* 7310
- Taiwan**
Actias selene 4002
Adoxophyes 8797
agriculture, reports 7295
Agrotis ipsilon 1604
Amblyseius 2495
Anoplophora maculata 1815
Aphididae 2797
Averrhoa carambola, pest control 5758
Bactrocera dorsalis 4707, 10657
Bradybaena similis 10684
Brontispa longissima 5696
Cerambycidae 4395
Chilades peripatria 2936
Cixiidae 4266
Coccoidea 3769
Conopomorpha cramerella, parasitoids 10737
Cylas formicarius 6931, 10834-10835
pathogens 4889
Delphacidae 11374
Diaphorina citri, parasitoids 4784
Erthesina fullo 7069
Eucoilidae 3523
Exothecidii 7519
grapes, Hemiptera 1552
Helicoverpa armigera 6710
Hemiberlesia lataniae, parasitoids 9662
Lophopidae 6253
maize
insect pests 2635
microbial pesticides, persistence 5622
Megalurothrips usitatus 1633, 3874
Melanagromyza obtusa 2845
Melanagromyza sojae 5822
Neoseiulus longispinosus 1293
Nilaparvata lugens 2659, 4664
Panonychus citri, natural enemies 2772
Plutella xylostella 4818, 11169
parasitoids 5791
Pomacea lineata 453
Rhipiphorotheus cruentatus 2776
Rhizoglyphus robini 8082, 11748
Ricaniidae 6254
snails 9186
Spodoptera exigua 1082
Spodoptera litura 5171, 11722
Thrips tabaci 11749
warehouses, Coleoptera 853
Zeuzera coffeae 4718
- Takecallis himalayensis*
bamboos, India 2967, 3648
parasitoids 3648
- Takecallis himalayensis* cont.
taxonomy, new species 2967
- Tallicada nyseus**
biology, development 10901
Kalanchoe blossfeldiana, India 10901
- Talitropsis**
biology, behaviour 8849
forest trees, New Zealand 8849
predators 8849
- Talponia**
Annona 9734
distribution, Venezuela 9734
- Talstar** (see Bifenthrin)
- Tamarix aphylla*, wood, *Psammotermes hybostoma*, damage 3067
- Tamarix nilotica*, wood, *Psammotermes hybostoma*, damage 3067
- Tamarix stricta*, *Nipaecoccus filamentosus*, Iran 3804
- Tamarix troupii*, *Nanophyes*, galls 6994
- Tamaron** (see Methamidophos)
- Tamiasciurus hudsonicus*, prey, *Choristoneura fumiferana* 8845
- Tanacetum balsamita*, insecticidal properties 5579
- Tanacetum cinerariifolium*
growth regulators, effects 7576
insecticidal properties 7180
silver nitrate, effects 7575
Thrips, resistance 9513
- Tanacetum vulgare*, extracts, control, Aphididae 9783
- Tanaostigmatidae**
morphology 6255
taxonomy 6255
- Tandanus tandanus*, insecticides, residues 12002
- Tandonia budapestensis*
biology, environmental factors 612
cereals, UK 370
control, molluscicides 705
heavy metals, accumulation 9483
molluscicides, effects 951
physiology, enzymes 951
potatoes, UK 705
soil, compaction, effects 3659
UK 3659
woodlands, UK 9483
- Taneostigmoidella*, taxonomy, synonyms, of *Coccophagus* 240
- Tangerines** (see Mandarins)
- Tangors**
Aonidiella aurantii, Israel 7744
Brevipalpus phoenicis 569
- Tannins**
effects
Anthonomus grandis 8772
arthropods, reviews 4170
forest pests 10954
Lymantria dispar 7024
synergism 11170
toxicity, *Heliothis virescens* 11170
- Tanymecus palliatus*
control, insecticides 2856
sugarbeet, USSR 2856
- Tanzania**
Chrysopidae 2909
cotton, pest control 3936
Diparopsis castanea 750
Helicoverpa armigera 751-752
Heteronygmia dissimilis 10944
Locusta migratoria, pathogens 1217
Ootheca bennigseni 11685
Oryctes monoceros 5695
pesticides, books 4223
Phthorimaea operculella 8741
Planococcus radicum 7887
Prostephanus truncatus 3055, 6715
Spodoptera exempta 3140
- Tapajosa rubromarginata*
host plants, Argentina 6764
monitoring, traps 6764
- Taphrocoetes*, taxonomy, new genus 2947
- Taphrocoetes ceratoniae*
Ceratonia siliqua 2947
taxonomy, from *Taphrorychus* 2947
- Taphrocoetes hirtellus*
forest trees 2947
taxonomy
from *Taphrorychus* 2947

Taphrocoetes hirtellus *cont.*
taxonomy *cont.*
synonyms, *Taphrorychus mecedanus* 2947

Taphrocoetes minor
Quercus ilex 2947
taxonomy, from *Taphrorychus* 2947

Taphrorychus ceratoniae, taxonomy, to
Taphrocoetes 2947

Taphrorychus hirtellus, taxonomy, to
Taphrocoetes 2947

Taphrorychus mecedanus, taxonomy, syno-
nyms, of *Taphrocoetes hirtellus* 2947

Taphrorychus minor, taxonomy, to
Taphrocoetes 2947

Tapinoma
Citrus, orchards, India 1584
Psorosticha zizyphi, interactions 1584

Tapinoma erraticum
biology, behaviour 9621
cereals, fields, Spain 4613
ecology, population dynamics 4613
grasslands, Belgium 9621

Tapinoma melanocephalum
buildings, German Democratic Repub-
lic 6511
greenhouse crops, Florida 4451
prey, *Romalea guttata* 718

Tapinoma nigerrimum
ecology, population dynamics 4613
physiology, spermatogenesis 11326

Tapinoma sessile
monitoring, traps 8324
Texas 8324

Tapioca mosaic virus, vectors, *Bemisia tabaci* 4088

Taraka hamada
bamboos, plantations, Japan 8442
biology 8442
evolution 8442
prey, *Ceratovacuna japonica* 8442

Taramira (see *Eruca vesicaria*)

Taraxacum officinale
Apina callisto, Australian Capital Ter-
ritory 8421
Arachya menetriesii 7684
Dichroplus elongatus 2403

Tarchonanthus camphoratus, *Tenuipalpus calcaris*, South Africa 1191

Taro (see *Colocasia esculenta*)

Tarophagus
Asia 3910
taxonomy 3910

Tarophagus colocasiae, taxonomy, syno-
nyms, *Tarophagus proserpina taiwanensis* 3910

Tarophagus persephone
taxonomy
synonyms
Tarophagus proserpina australis 3910
Tarophagus proserpinoides 3910

Tarophagus proserpina
Asia 3910
taxonomy 3910

Tarophagus proserpina australis, taxon-
omy, synonyms, of *Tarophagus persephone* 3910

Tarophagus proserpina taiwanensis, taxon-
omy, synonyms, of *Tarophagus colo-
casiae* 3910

Tarophagus proserpinoides, taxonomy,
synonyms, of *Tarophagus persephone* 3910

Tarsonemidae
biology 575, 5029, 11625
control, acaricides 10673
crops, Italy 2554
grapefruits, Cuba 575
grapes, Hungary 11625
hosts, *Pissodes* 6000
Nothofagus pumilio, forests, Chile 5029
predators 575
strawberries, Belgium 10673

Tarsonemus granarius
control, insecticides 11876
oats, commodities, Manitoba 11876

Tarsonemus pallidus (see *Phytonemus pallidus*)

Tarsonemus wangi
Agaricus bisporus, China 10759
taxonomy, new species 10759

Tarsopolipus bisetalus
Africa 5459
hosts, Scarabaeidae 5459
taxonomy, new species 5459

Tarsopolipus hallidayi
Africa 5459
hosts, Scarabaeidae 5459
taxonomy, new species 5459

Tarsopolipus massai
hosts, Scarabaeidae 5459
Italy 5459
taxonomy, new species 5459

Tatochila autodice, morphology, excretory
system 5313-5316

Taxaceae, *Lymantria dispar* 8866

Taxodiaceae, *Lymantria dispar* 8866

Taxodium, *Neargyactis slossonalis*, Flor-
ida 3976

Taxodium distichum
Archips argyrospilus, Louisiana 4017
Coptotermes formosanus, Louisiana 10974

Taxonomy
insects 5260
statistical analysis 5397

Taxus, Curculionidae, Belgium 1876

TCMTB, toxicity, *Reticulitermes flavipes* 7536

TDE (mixture of isomers in which *p,p'*-
DDD predominates)
residues
plants 3205
soil 3205
streams 7228

***p,p'*-TDE** (1,1'-(2,2-dichloroethylidene)
bis[4-chlorobenzene])
residues
human milk 2018
reservoirs 8141

Tea (*Camellia sinensis*)
Acaphylla theae 6458
China 4961
Adoxophyes, Taiwan 8797
Amblyseius leonardi, Peru 5763
Andraca bipunctata, China 4958
arthropod pests, Sri Lanka 3955
Asia 3416
Aspidiotus destructor, damage 4960
Attacus atlas, India 5903
Buzura suppressaria, India 5901
Crematogaster dohrni, Sri Lanka 3954
Cydia leucostoma, India 6988
Dasmithius camelliae, China 7314
Ectropis obliqua, China 8798
Euwallacea fornicatus
India 9903
varietal susceptibility 7888
Fiorinia theae, India 3952
habitats, *Ascogaster reticulata* 9901
Hemiberlesia rapax, India 5904
Homona coffearia, India 9904
insecticides, residues 770, 3955
Lachnosterna disparilis, varietal sus-
ceptibility 10883
Lepidoptera, India 2935
mites, India 5902
pest control 11274
plantations
Apanteles aristaeus, India 6988
Aphytis fiorinae, India 3952
Hymenoptera, India 3953
Micromus timidus, India 9905
Neoseiulus longispinosus, Japan 9900, 10882
parasitoids, India 2935, 9904
predatory mites, India 5902
Polyphagotarsonemus latus, South
Africa 7746
research, Kenya, reports 11274
Sarawak, reports 7299
Scirtothrips kenyensis, Kenya 9902
Tetranychidae, China 4957
Tetranychus kanzawai 6989
Toxoptera aurantii, India 9905
Tropicomyia theae, India 3953
Tuckerella, Kenya 4959

Teaching materials, integrated pest man-
agement, catalogues 7286

Teak (see *Tectona grandis*)

Techniques
anaesthesia, Araneae 10379
analysis
arthropods, mortality 6446
Chiroptera, prey 7426
Cicadellidae, plant pathogens 874
Drosophila, enzymes 9200
forest pests, population dynamics 11789
insecticides 932, 1198, 3199, 6479, 6483, 6488, 8305
bibliographies 9117
residues 7082, 9032, 10182, 10368, 11148
toxicity 11979
organophosphorus pesticides 7216
pesticides 164, 167, 7172
residues 10184, 10367, 11017
pheromones, enantiomers 11307
population dynamics 5396
proteins, cold resistance 3444

application
acaricides 744
antifeedants 5225
insecticides 1543, 3038, 3735, 4866-4867, 4870, 5010, 6147, 7161, 7446, 10093, 10816, 11400, 11995, 12018
safety 2391
simulation 5394
pesticides 491, 503, 1559, 1601, 1975, 4159, 4245, 8558, 9679, 11133
containers 11132
remote control 6129

assays
Drosophila melanogaster, chemicals 1201
insecticides, resistance 7178, 8629
juvenile hormones, metabolism 94
Metarhizium anisopliae, pathoge-
nicity 4099
pesticides 6145

assessment
cereals, yield losses 2591
Chiroptera, prey, availability 7425
crops, yield losses 3141
insecticides
leaching 3196
residues, food 10176
maize, yield losses 2629
millets, yield losses 2641
pest resistance 10838
rice
insect pests, yield losses 11573
yield losses 2650
sorghum, yield losses 3717

bioassays
acaricides, resistance 4935
Aphididae, feeding 6489
arthropods 5398
attractants 3211
Bacillus thuringiensis 4107, 11942
Bombyx mori, hormones 10313
Galleria mellonella, juvenile hor-
mones 8257
granulosis viruses 6098
insect pests, damage 11399
insecticides 764, 3203, 4178, 7445, 8085
nontarget effects 7194-7195, 9085
insects, cell lines 11167
oviposition deterring pheromones 548
pest resistance 8760
Scolytidae 4035
Tenebrio molitor 4700

biological control, *Mononychellus tanajoa* 7276

characterization
mites, trails 628
nuclear polyhedrosis viruses 7149
polychlorinated biphenyls 11143
soil fauna 1165

classification
Amyelois transitella, larvae 4273
cytoplasmic polyhedrosis viruses 11102

Techniques cont.

- cold storage, *Bactrocera cucurbitae* 2395
- collection
 - arthropods 6224
 - Bracon* 271
 - Cnaphalocrocis medinalis*, eggs 5405
 - insects 7458
 - pheromones 65
 - soil, invertebrates 7449
 - Stenchaetothrips biformis* 11577
- collections, arthropods 10389
- comparison, attractants 801
- computer software, pest control 9010-9011
- computer techniques
 - arthropods, immigration 6495
 - forest pests, control 1792
 - pest management 8064
- conservation, predatory arthropods 3701
- culture (see Culture techniques)
- data collection, *Chortoicetes terminifera*, control 7473
- detection
 - Acarapis* 1271
 - Anastrepha suspensa* 3818
 - Bacillus thuringiensis* 3106
 - Bruchus pisorum* 8001
 - Eriophyidae 4422
 - insect viruses 3087, 3466, 8165
 - insecticides 1199, 3442, 5203, 6484, 7826, 9076, 9089-9090, 9348, 11140, 11144
 - residues 7193
 - resistance 2921, 3171
 - insects, damage 2398
 - Metarhizium anisopliae* 11945
 - mycoplasma-like organisms 7791
 - natural enemies 2453
 - Noctuidae 5626
 - nuclear polyhedrosis viruses 4014
 - parasitoids 10561
 - pesticides, mutagenicity 3182
 - plant pathogens 1396, 10680
 - vectors 11899
 - plant viruses 5770, 6056, 10846
 - vectors 5837
 - Podisus maculiventris*, prey 7532
 - predatory arthropods, prey 3516
 - Pyralidae 3379
 - Scolytidae, damage 7921
 - semiochemicals 3007
 - Sitophilus oryzae* 4058
 - stored products pests 869, 4080
 - Tephritidae 4803, 7116
- determination
 - Aphididae, migrants 4371
 - arthropod pests, economic thresholds 549
 - Choristoneura fumiferana*, damage 7925
 - Dendrolimus sibiricus*, damage 1800
 - dicofol, residues 3441
 - entomogenous fungi, viability 11917
 - food preferences 375
 - Formica*, man, effects 7484
 - insect pests, economic thresholds 919
 - insect viruses, relationships 11095
 - insecticides 978, 3154, 4176-4177, 6478, 6480, 9033, 9091, 10146-10147, 10369, 11139
 - degradation 11141
 - distribution 6485
 - drift, effects 9051
 - mutagenicity 6188
 - nontarget effects 1282, 7204, 9098
 - phytotoxicity 11401
 - residues 1845, 2052, 2058, 3443, 4201, 5181, 6020, 6186, 7224, 7968, 8893, 9349, 9696, 10144, 11984
 - toxicity 6150-6151, 7176
 - toxicology 7269
- insects
 - development 5403
 - hormones 11338

Techniques cont.

- determination cont.
 - molluscicides 9047
 - toxicity 2551, 8079
- Nilaparvata lugens*, feeding 5401
- parasitism 7079
- Pectinophora gossypiella*, damage 3930
- pentachlorophenol 3447
- pest resistance 1622, 1677
- pesticide residues 11210
- pesticides 2379, 7173
 - nontarget effects 7227
 - residues, conferences 12035
 - stability 9044-9045
- pheromones
 - release 8307
 - reviews 3440
- pollen loads 1196
- repellents 7676
- Rhagoletis pomonella*, movement 3458
- sedimentation 6206
- sex pheromones, evaporation 9208
- Sitodiplosis mosellana*, biology 5604
- stored products, damage 7981
- development, insects, saline 6316
- diagnosis, immune response 7152
- differentiation, *Aphis gossypii*, developmental stages 8308
- disinfection, *Galleria mellonella* 4425
- electrophoresis
 - Aphididae, enzymes 9655
 - Braconidae, identification 11440
- estimation
 - Acrididae, food consumption 2535
 - behaviour 7597
 - fumigants, residues 7992, 11220
 - insecticides
 - mixtures, activity 7191
 - residues 5084
 - insects
 - population dynamics 7028
 - survival 8264
 - Lymantria dispar*, fecundity 7956
 - phenology 9327
 - Rhopalocera, populations 7424
- evaluation
 - acaricides, toxicity 9052
 - allethrin, nontarget effects 9137
 - forest trees, damage 1771
 - insecticides 1996, 6170, 10377, 10859
 - nontarget effects 4247-4248, 6200, 7302-7303
 - integrated pest management, economics 8060
 - microbial pesticides, nontarget effects 11952
 - pest resistance 1431
 - pesticides 946
 - nontarget effects 10681
 - predatory mites, biological control agents 11745
 - rice, insect pests, predators 10617
- expert systems
 - integrated pest management 7949
 - lucerne, arthropods 7698
 - pest control 658
- extraction
 - Acarus siro* 6494
 - Bacillus thuringiensis*, soil 6057
 - insecticides 3445
 - residues 11985
 - water 2057
 - silk 295
- field experimentation, *Leucinodes orbonalis* 732
- filtration, insecticides 1993
- forecasting (see Forecasting)
- fractionation, insecticides 11142
- genetic engineering
 - Baculoviridae 7148
 - juvenile hormones, esterases 7232
- genetic transformation, entomogenous fungi 11085
- heating, plants, roots 2389
- identification
 - Anagrus epos*, biotypes 5712
 - Baculovirus* 4148

Techniques cont.

- identification cont.
 - cell cultures 5111
 - insect viruses 11918
 - Telenomus* 6552
- immobilization, peroxidase 6296
- immunoassay
 - moulting hormones 2380
 - plants, secondary metabolites 1018
 - predators, prey 4501
- immunology, Entomophthorales, identification 6066
- information retrieval, entomology 8192
- information systems, pest control 6499
- investigation, Aphididae, flight 3453
- isolation
 - Aphididae, symbionts 5395
 - Bacillus thuringiensis*, bacteriophages 7154
 - entomopathogens, water 7126
 - Entomophthora muscae* 11922
 - insects, neurohormones 3334
 - Metarhizium anisopliae*, destruxins 8008
- mapping
 - arthropods, metals, distribution 10376
 - Chortoicetes terminifera*, reproduction 6505
- marking
 - Anaphes iole* 2448
 - Chilo partellus* 6492
 - Cydia molesta* 11403
 - Formicidae 2427
 - Heliothis virescens* 9356
 - Hodotermes mossambicus* 6599
 - insects 2387, 6498
 - reviews 3439
 - Lymantria dispar* 5019
 - Microtermes lepidus* 11486
 - Nephotettix virescens* 7634
 - Occidryas editha* 3457
 - Reticulitermes flavipes* 10484
 - Rhopalocera 3890
 - Spodoptera exigua* 9643
- measurement
 - Araneae, webs, stickiness 10371
 - feeding, *Nephotettix cincticeps* 5671
 - insect pests, damage 4165
 - insecticides 5216
 - drift 3446
 - hydrolysis 1410
 - synergism 4647
 - insects, trachea, volume 3450
 - Lymantria dispar*, pheromones, responses 132
- microscopy
 - insects 6487
 - Lepidoptera 1197
 - Miridae, reproductive organs 9187
 - mycoplasma-like organisms 7717
 - nuclear polyhedrosis viruses 11096
- monitoring
 - Carabidae, behaviour 7448
 - climatic change 5376
 - Coptotermes formosanus* 11481
 - insecticide resistance 10877
 - insecticides
 - deposition 4419
 - resistance 6815, 7003, 8778, 11767, 11977
 - insects 2398, 3448
 - Rhyzopertha dominica* 4057
- packaging, *Neochetina* 8317
- photography, Lepidoptera, genitalia 3454
- prediction, *Bombyx mori*, genetics 3598
- preparation
 - antibodies 2381
 - Bacillus thuringiensis*, toxins 7129
 - Bombyx mori* 7539
 - insecticides 7177
 - insects
 - membranes, vesicles 1070
 - nervous system 1213
 - parasitoids 10388
- preservation
 - arthropods 4433
 - Coccidae 3452
 - Hymenoptera, nests 4432
 - insects 3461

Techniques cont.

preservation cont.
Lepidoptera, genitalia 3254
production
Baculoviridae 11107
Beauveria bassiana 6928, 7160
insect viruses 11090
microbial pesticides 7139
nuclear polyhedrosis viruses 5119
quality controls
Ceratitis capitata 2390
Trichogramma 272
radiography, plant pathogens, vectors, movement 11061
rearing (see Rearing techniques)
recording
Delphacidae, sound production 9354
insects, movement 10374
recovery
entomogenous fungi, soil 5136
insecticides, fat 9347
release (see Release techniques)
remote sensing
insects, migration 6493
Schistocerca gregaria 8320
removal, parasitoids 3555
research
Aphididae 4233
insects
genetics 11353
nervous system 4326
Mollusca, activity 311
sampling (see Sampling)
scanning electron microscopy, insects 7462
screening
insecticides 9755
pest resistance 1442, 2671, 5659, 8501, 9575, 11028, 11717
protective clothing 8069
varietal susceptibility 1693
sectioning, insects, organs 3451
separation, pheromones 6308
sex determination
Amphicerus bicaudatus 8566
Aproaerema modicella 8708
Epilachna vigintioctopunctata 9185
Oryctes rhinoceros 1539
Ostrinia furnacalis, larvae 5400
sex differentiation, *Ceratitis capitata* 10207
simulation models, *Gilpinia hercyniae* 5058
spectroscopy, insects, metabolism 57
staining
Ceratitis capitata, chromosomes 6380
Hemiptera 2382
insect viruses 2531
insects, cells 1214
Manduca sexta 7451
statistical analysis
insecticides, toxicity 3157-3158
insects, distribution 7961
taxonomy 5397
statistical methods, entomology 11402
stimulation, insects, olfactory organs 3455
storage
Allorhogas pyralophagus 5466
Aphidoletes aphidimyza 10383
Entomophaga aulicae 5134
Epiricania melanoleuca 5471
Heliothis virescens 4427
insects 11409
Metarhizium anisopliae 8982
parasitoids 10459
Podisus maculiventris 2521
Saturniidae, eggs 10330
Sitotroga cerealella, eggs 170
synthesis
alarm pheromones 6301
insecticides 6481
pheromones 4052
systems, pesticides, handling 11134
testing
entomogenous fungi 11100
fumigants, toxicity 4085
insecticides 8071
molluscicides 953

Techniques cont.

testing cont.
pesticides, nontarget effects 4157, 6577
titration, insect viruses 6604
transformation, *Bacillus thuringiensis* 8975
trapping, arthropods 9361
Technomyrmex, morphology, larvae 10399
Technomyrmex albipes
coconuts, plantations, Sri Lanka 3757
hosts, *Opisina arenosella* 3757
Tectocephus velatus, distribution, Turkey 3404
Tectona grandis
Cossus cadambae, India 1799
Eucoptacra ceylonica, India 10895
Eutectona machaeralis, India 1798
Hyblaea puera, India 1838
Indomecus bombayensis, India 11871
insect pests, India 10979
Lepidoptera, India 5920
Leptobyrssa decora, India 2565
Myloceros viridanus, India 11004
Tedifol (see Dicofol, with tetradifon)
Teflubenzuron (N-[[[(3,5-dichloro-2,4-difluorophenyl)amino]carbonyl]-2,6-difluorobenzamide)
control
Brevipalpus phoenicis 6838
Cryptophlebia leucotreta 5752
Cydia pomonella 8583
Plutella xylostella 3852
Pristiphora abietina 8911
effects
Spodoptera littoralis 8152
Thrips palmi 9728
physicochemical properties 11155
residues, *Pinus* 10987
toxicity
Chrysopa pallens 5492
Dysdercus koenigii 7233
Euxoa messoria 5896
Lepidoptera 10987
Osmia cornifrons 7733
Tortricidae 5717, 8613
Tefluthrin ((2,3,5,6-tetrafluoro-4-methylphenyl)methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate)
control
sugarbeet
arthropod pests 11738-11739
insect pests 2859
effects
Diabrotica virgifera 4650
sugarbeet 11740
Tegolophus birbhumensis
Litsea, India 10977
taxonomy, new species 10977
Tegolophus califraxini
distribution, Europe 3996
Fraxinus excelsior 3996
Tegonotus gutierrezii
oil palms, Ivory Coast 6784
taxonomy, new species 6784
Tegopronus bicristatus
Cassine burkeana, South Africa 9926
taxonomy, new species 9926
Teleiopsis
biology 2128
food plants 2128
taxonomy 2128
Telenominae
rearing techniques 9420
taxonomy 1332
Telenomus
Africa 6552
Amaranthus retroflexus, habitats, Quebec 6652
Citrus, orchards, India 2761
coffee, plantations, Costa Rica 4953
Ficus elastica, habitats, India 10897
hosts
Achaea janata 8765
Lygus lineolaris 6652
Papilio 2761
Pyralidae 6552
Rothschildia orizaba 4953
Trilocha varians 10897
identification 6552

Telenomus cont.

Ricinus communis, fields, India 8765
taxonomy 6552
synonyms
Micromymar 6552
Platytenomus 1332
Telenomus acrobates
China 7523
hosts, *Chrysopa pallens* 7523
Telenomus applanatus, taxonomy 6552
Telenomus argus
hosts, *Theresimima ampelophaga* 2445
Israel 2445
taxonomy, new species 2445
Telenomus bini, taxonomy, new species 6552
Telenomus bombycis
forests, Hungary 8851
hosts, *Dendrolimus pini* 8851
Telenomus cirphivorus
biology 5488
hosts, *Mythimna separata* 5488
Telenomus creusa, taxonomy, new species 6552
Telenomus etiologicalphaga, taxonomy, from *Micromymar* 6552
Telenomus heliothisis
biology, sex ratio 4526
hosts, *Heliothis virescens* 4526
Telenomus ichthyurae
hosts, *Datana integerrima* 2717
walnuts, orchards, Mexico 2717
Telenomus lobatus, hosts, Neuroptera 2471
Telenomus manolus
hosts, *Amsacta albistriga* 2846
insecticides, effects 2846
Telenomus nemesis, taxonomy, new species 6552
Telenomus nephele, taxonomy 6552
Telenomus phalaenarum
hosts, Lepidoptera 3020
Netherlands 3020
Telenomus podisi
hosts, *Podisus maculiventris* 2452
pheromones 2452
Telenomus procas, taxonomy 6552
Telenomus remus
control, *Spodoptera frugiperda* 9561
habitats 8370
hosts, *Spodoptera litura* 2439, 8370
maize, fields, Venezuela 9561
rearing techniques 2439
Telenomus reynoldsi
ecology, population dynamics 4478, 4520
hosts, *Geocoris punctipes* 4478, 4520
Telenomus solitus
biology 3520
hosts, *Trichoplusia ni* 3520
Telenomus soudanensis, taxonomy 6552
Telenomus sphingis
biology, behaviour 4890
cassava, fields, Colombia 4890
hosts, *Erinnyis ello* 217
insecticides, effects 217
Telenomus tetratomus
distribution, Netherlands 8903
hosts, *Dendrolimus pini* 8903
Telenomus thestor, taxonomy 6552
Telenomus tolli, taxonomy 6552
Telenomus turkarkandas
hosts, *Euproctis chrysorrhoea* 5970
trees, Italy 5970
Telenomus ullyetti, taxonomy 6552
Telenomus versicolor, taxonomy 6552
Telenomus zygaenae
hosts, Zygaenidae 2445
morphology 2445
Teleogryllus commodus
biology 467
Pacific Islands 191
pastures, Victoria 6760
pathogens 6760
physiology
endocrine system 3309, 10304
nervous system 6332
spermatogenesis 9239
soil, New Zealand 467
songs 6332
Teleogryllus emma, biochemistry, polyamines 6350

- Teleogryllus oceanicus**
biology, behaviour 9305
Pacific Islands 191
physiology
flight 6298
muscles 6329, 11317
nervous system 5319, 6334
- Teleterebratus perversus**
hosts, *Quadraspidiotus perniciosus* 11433
India 11433
- Telomyxa**, hosts, insects 7126
- Telsimia emarginata**
Citrus, orchards, China 7749
prey, *Parlatoria zizyphi* 7749
- Temephos** (*O,O'*-(thiodi-4,1-phenylene) bis (*O,O*-dimethyl phosphorothioate))
control, *Sipha flava* 3724
- Temik** (see Aldicarb)
- Temperate fruits**, production, books 7254
- Tenebrio molitor**
antifeedants 4700
bioassays 4700
biology 1897
cell cultures 95
cold resistance 3444
genetics
cytogenetics 7394
DNA 4071
gene mapping 1139
genome analysis 3058
growth regulators, effects 6213, 8938
insecticides, effects 1122
lucerne, varietal susceptibility 4700
morphology, nervous system 2163
pathogens 6099
pheromones 9237
physiology
cuticle 8941
development 3306
endocrine system 95, 8938, 11331
enzymes 1065, 3280, 4062, 4301
respiration 4306
plant extracts, effects 4062, 8928
predators 10443
repellents 7379
- Tenebrionidae**
checklists, Australia 8198
Citrus, orchards, Ethiopia 1582
dead trees 3983
distribution, Saudi Arabia 11391
ecology
distribution 9286
water relations 2330
fire, effects 7670
Gamasoidea, phoresy 1171
genetics, cytogenetics 7394
grasslands, Utah 7670
Kenya 2330
maize, South Africa 9572
monitoring, traps 7670
physiology, cuticle 1076
rearing techniques 2392
sampling 4612
soil
Queensland 4612
USSR 9286
taxonomy 8198
- Tenodera angustipennis**
Delaware 8351
ecology, population dynamics 8351
Tenodera aridifolia sinensis, interactions 8351
- Tenodera aridifolia sinensis**
biology
behaviour 6579, 9302, 10443
environmental factors 4519
Delaware 8351
ecology 6545
population dynamics 8351
old fields, USA 6545
physiology
chemical composition 1124
enzymes 2198
sense organs 2249
prey
Drosophila melanogaster 4519
insects 10443
Neobellieria bullata 6579
Tenodera angustipennis, interactions 8351
- Tenodera sinensis** (see *T. aridifolia sinensis*)
- Tenthredinidae** 2558
Betula pubescens, Finland 10969
biology 7589
cereals, Poland 7589
control, insecticides 810
distribution, UK 3987
ecology 4031
population dynamics 10969
forest trees 3987
France 4031
USSR 810
North America 3557
parasitoids 3557
predators 10460
Rosa canina, galls 2558
Salix, Europe 4041
- Tenthredinoidea**, taxonomy 3571
- Tenthredo**
biogeography 8197
Italy 8197
taxonomy 4261, 8197
- Tenuilichus**, taxonomy, new genus 2965
- Tenuilichus malvae**
forest trees, India 2965
taxonomy, new species 2965
- Tenuilichus striatus**
forest trees, India 2965
taxonomy, new species 2965
- Tenuipalpidae**
biology 575
crops, Italy 2554
grapefruits, Cuba 575
groundnuts, Egypt 662
predators 575, 662, 8631
woody plants 10469
- Tenuipalpus**, taxonomy 4594
- Tenuipalpus bassiae**
Bassia latifolia, India 2965
taxonomy, new species 2965
- Tenuipalpus calcarius**
Tarchonanthus camphoratus, South Africa 1191
taxonomy, new species 1191
- Tenuipalpus chamaedoreae**, *Chamaedorea*, Costa Rica 4594
- Tenuipalpus costarricensis**, *Cedrela*, Costa Rica 4594
- Tenuipalpus granati**, Egypt 324
- Tenuipalpus punicae**, Egypt 324
- Tenuipalpus rhyssus**, *Trichilia havanensis*, Costa Rica 4594
- Tenuipalpus uvae**, *Spondias purpurea*, Costa Rica 4594
- Tephritidae**
attractants 9727
biology 4234, 4240, 7262
behaviour 3378
books 4234-4235
British Isles, books 7262
cassava, Trinidad and Tobago 1701
Citrus, commodities 1912
conferences 1021, 4240
control 4235, 4240, 4803
Compositae 1382
fumigants 1912
hot water treatment 3080
detection 4803, 7116
distribution 3753
ecology 4235
fruits 3753
commodities 3076
Costa Rica 4479
Mauritius 9727
Mexico 8636
Galactites tomentosa, Madeira 4592
genetics 4235
Israel 10241
mangoes, America 3080
monitoring 4235, 9727
traps 8636
morphology 7262
parasitoids 8636, 9398
pawpaws
commodities 7116
Hawaii 4803
physiology 4234
songs 3378
taxonomy 4234, 4240, 10241
keys 7262
- Tephritis**
Baccharis, North America 4585
morphology 4585
taxonomy 4585
- Tephritis bardanae**
Arctium minus 6418
UK 6666
biology 6418
behaviour 6666
pheromones 6666
- Tephritis conura**
biology, behaviour 10514
Cirsium heterophyllum, German Federal Republic 10514
- Tephritis palmeri**
Baccharis, North America 4585
taxonomy, new species 4585
- Tephrosia**, extracts, antifeedants, *Spodoptera* 7577
- Tephrosia villosa**, *Amblyseius msabahaensis*, Kenya 1833
- Tephrosia vogelii**, extracts, control, insect pests 352
- Teramnus labiatus**, *Amblyseius msabahaensis*, Kenya 1833
- Teramnus uncinatus**, *Tetranychus urticae* 8426
- Terastia meticulosalis**
distribution, India 3001
Erythrina 3001
- Terbufos** (*S*-[(1,1-dimethylethyl)thio]methyl) *O,O*-diethyl phosphorodithioate)
contamination, clothing 8132
control
Agrypnus variabilis 8658
Aphididae 10581
Blissus leucopterus 7613
Bothynoderes punctiventris 6912
Delia antiqua 6939
Diabrotica virgifera 9567
Epitrix hirtipennis 9890
degradation, soil 9099, 9567
effects, fowls 8112
herbicides, interactions 9567
nontarget effects, soil, microorganisms 6820
residues, groundwater 6204
toxicity
Diabrotica undecimpunctata 6162
Folsomia candida 12006
Heterorhabditis bacteriophora 8981
Somaticus 5627
Somaticus geniculatus 6716
with herbicides, control, *Diabrotica* 4647
- Teredinidae**
Araucaria, wood, Brazil 11890
ecology, distribution 11890
- Teredo furcifera**
Araucaria, wood, Brazil 11890
ecology, distribution 11890
- Teredo navalis**
Araucaria, wood, Brazil 11890
ecology, distribution 11890
- Terellia**, taxonomy 6643
- Terellia colon**, taxonomy, *Terellia luteola*, differentiation 6643
- Terellia luteola**
control, *Centaurea solstitialis*, evaluation 6643
food plants 6643
taxonomy, differentiation, *Terellia colon* 6643
- Terellia virens**
biology 8191
Centaurea 2570
North America 8191
control, *Centaurea*, evaluation 8191
- Teretriosoma nigrescens**
biology 6028
prey, *Prostephanus truncatus* 6028
- Teratophyllum insigne**
biology 227, 861
prey
stored products pests 861
Tribolium confusum 227
rearing techniques 227
- Terminalia**
Antheraea mylitta, India 10986
Platyplus parallelus 6456

- Terminalia catappa**
forests, Hymenoptera, India 10980
Pteroma plagiophleps, India 10980
- Terminalia sericea**, Eriophyidae, South Africa 11829
- Terminalia tomentosa**
Antheraea mylitta, India 7541, 10958
Nyphasia apicalis, India 1816
- Terminalichus dehlensis**
guavas, India 6850
taxonomy, new species 6850
- Termitaria**, effects, environment 5519
- Termite mounds** (see Termitaria)
- Termitidae**
Australian Northern Territory 1345
biology, behaviour 3576
buildings, Florida 3576
control 7586
distribution, Oriental Region 3580
ecology 1345
physiology, digestion 9464
Streptomyces, symbiosis 10481
sugarcane, Pakistan 7586
- Termitogeton planus**
Malaysia 8230
physiology, secretions 8230
- Termitogetoninae**, taxonomy 8230
- Termitomyces**
fungicides, effects 11485
Macrotermes, symbiosis 9461
Macrotermes michaelsoni, symbiosis 11484
Macrotermes muelleri, interactions 3579, 4550
Macrotermitinae, interactions, reviews 4554
Microtermes
interactions 5511
symbiosis 11485
- Termitrogidae**, catalogues 9123
- Terpenoids**
effects
Anthonomus grandis 8772
Formicidae 2429
insects 8067
metabolism, *Paropsis atomaria* 5958
- Terpentine**, mixtures, attractants, Scolytidae 2347
- Terpinolene**, attractants, *Tomicus piniperda* 5037
- Tersilochus heterocerus**
hosts, *Meligethes aeneus* 3849, 8672
Poland 8672
rape, fields, Sweden 3849
- α -Terthienyl**, effects, insects 4151
- Tessaratomya papillosa**
China 3101
parasitoids 9425
pathogens 3101
- Testacea**, insecticides, effects 2046
- Tetanocera**, prey, *Deroceras reticulatum* 278
- Tetanocera ferruginea**
biology, behaviour 9401
prey, snails 9401
- Tetanops myopaeformis**
monitoring, traps 5839
sugarbeet, Idaho 5839
- Tetra guiyangensis**
Salix, China 5947
taxonomy, new species 5947
- Tetra lushuiensis**
Adina racemosa, China 5947
taxonomy, new species 5947
- Tetrachlorvinphos** ((Z)-2-chloro-1-(2,4,5-trichlorophenyl)ethenyl dimethyl phosphate)
metabolism, mites 10437
residues
determination 9349
onions 3911
water 9349
toxicity, stored products pests 7984
- Tetraclinis articulata**, insect pests, Morocco 5984
- Tetracnemoidea**
taxonomy
synonyms
Anarhopus 2124
Zealandencyrtus 2124
- Tetracnemoidea bicolor**, taxonomy, synonyms, *Zealandencyrtus yasumatsui* 2124
- Tetracnemoidea sydneyensis**, taxonomy, from *Anarhopus* 2124
- Tetracycline**
effects
Samia cynthia ricini 6950
Tribolium confusum 5380
Trichogramma 10477
- Tetracyclines**, symbionts, Aphididae 4844
- (5Z,8Z,13R)-5,8,13-Tetradecadien-13-olide**, mixtures, pheromones, *Oryzaephilus surinamensis* 9207
- (5Z,8Z)-5,8-Tetradecadien-13-olide**, pheromones, *Oryzaephilus surinamensis* 67, 857
- (10E,12E)-10,12-Tetradecadienyl acetate** mixtures, pheromones, *Amorbia cuneana* 4310
synthesis 4310
- (10E,12Z)-10,12-Tetradecadienyl acetate** mixtures, pheromones, *Amorbia cuneana* 4310
synthesis 4310
- (9E,11E)-9,11-Tetradecadienyl acetate**, mixtures, pheromones, *Epiphyas postvittana* 9311
- (9Z,11E)-9,11-Tetradecadienyl acetate** mixtures, pheromones, *Spodoptera litoralis* 7345
pheromones, *Spodoptera litura* 5171
- (9Z,12E)-9,12-Tetradecadienyl acetate** control, *Ephestia cautella* 7988
formulations 7988
mixtures
pheromones
Ephestia cautella 8946-8947
Spodoptera exigua 9843, 10275, 10839
- pheromones
Spodoptera exempta 409
Spodoptera exigua 1082
Spodoptera litura 5171
synthesis 1082
- Tetradecanal**, pheromones, *Heliothis subflexa* 8554
- (Z)-9-Tetradecanal**, pheromones, *Heliothis subflexa* 8554
- Tetradecan-1-ol**, effects, *Cydia pomonella* 6310
- (E)-11-Tetradecenal**
mixtures
pheromones
Choristoneura occidentalis 8884-8885
Croesia curvalana 2707
- (Z)-11-Tetradecenal**
mixtures
pheromones
Choristoneura occidentalis 8884-8885
Croesia curvalana 2707
- (Z)-7-Tetradecenal**, pheromones, *Prays citri* 9723
- (Z)-9-Tetradecenal**
mixtures
pheromones
Helicoverpa armigera 6434
Heliothis virescens 8235
- pheromones
Heliothis peltigera 2783
Heliothis virescens 3290
Spodoptera exempta 409
- (Z)-6-Tetradecene**, mixtures, pheromones, *Tyrophagus neiswanderi* 9779
- (Z)-7-Tetradecene**, mixtures, pheromones, *Tyrophagus neiswanderi* 9779
- (E)-11-Tetradecen-1-ol acetate**, inhibitors, pheromones, *Archips* 6822
- (Z)-9-Tetradecen-1-ol acetate**, mixtures, effects, *Cotesia marginiventris* 2473
- (Z)-9-Tetradecen-1-ol formate**, attractants, *Helicoverpa zea* 6312
- (E)-11-Tetradecen-1-ol**
analogues, pheromones, *Ostrinia nubilalis* 8238
mixtures, pheromones, *Homadaula anisocentra* 6313
- (Z)-11-Tetradecen-1-ol**
analogues, pheromones, *Ostrinia nubilalis* 8238
mixtures
pheromones
Cacoecimorpha pronubana 8237
Yponomeuta malinellus 7736
pheromones, *Cacoecimorpha pronubana* 64
- (E)-11-Tetradecenol**, mixtures, pheromones, *Choristoneura occidentalis* 8884
- (Z)-11-Tetradecen-1-ol**, attractants, *Archips rosanus* 556
- (Z)-11-Tetradecenol**, mixtures, pheromones, *Choristoneura occidentalis* 8884
- (Z)-7-Tetradecen-1-ol**, pheromones, *Xestia c-nigrum* 7455
- (Z)-9-Tetradecen-1-ol**
mixtures, pheromones, *Spodoptera exigua* 9843, 10275, 10839
pheromones
Spodoptera exempta 409
Spodoptera exigua 1082
synthesis 1082
- Tetradecenyl acetate**
mixtures
pheromones
Homadaula anisocentra 6313
Hydraecia micacea 913
- (E)-11-Tetradecenyl acetate**
mixtures
pheromones
Adoxophyes 8797
Argyrotaenia velutinana 7344
Cacoecimorpha pronubana 8237
Choristoneura occidentalis 8884
Croesia curvalana 2707
Epiphyas postvittana 9311
Etiella zinckenella 1662
Homadaula anisocentra 6313
Hydraecia micacea 913
Ostrinia nubilalis 66
- pheromones
Cacoecimorpha pronubana 64
Ostrinia nubilalis 3667, 8232, 8698
Tortricidae 10274
- (Z)-11-Tetradecenyl acetate**
attractants, *Archips rosanus* 556
mixtures
pheromones
Adoxophyes 8797
Adoxophyes orana 6803
Cacoecimorpha pronubana 8237
Choristoneura occidentalis 8884
Croesia curvalana 2707
Etiella zinckenella 1662
Hydraecia micacea 913
Ochroleura fennica 9209
Ostrinia nubilalis 66
Panolis flammea 3026
- pheromones
Cacoecimorpha pronubana 64
Ostrinia nubilalis 3667, 8232, 8698
Spodoptera exempta 409
Tortricidae 10274
- (E)-12-Tetradecenyl acetate**, mixtures, pheromones, *Ostrinia furnacalis* 3668
- (Z)-12-Tetradecenyl acetate**, mixtures, pheromones, *Ostrinia furnacalis* 3668
- (Z)-5-Tetradecenyl acetate**, pheromones, *Ctenopseustis* 7351
- (Z)-8-Tetradecenyl acetate**
mixtures, pheromones, *Planotortrix excessana* 61
pheromones, *Ctenopseustis* 7351
- (E)-9-Tetradecenyl acetate**
inhibitors, pheromones, *Ostrinia nubilalis* 66
pheromones, *Zeiraphera* 3023
- (Z)-9-Tetradecenyl acetate**
analogues, pheromones, *Trichoplusia ni* 10276
inhibitors
pheromones
Lacanobia suasa 2254
Ostrinia nubilalis 66
- mixtures
pheromones
Adoxophyes 8797
Adoxophyes orana 6803
Agrotis segetum 4417

- (Z)-9-Tetradecenyl acetate cont.
mixtures cont.
pheromones cont.
Cacoecimorpha pronubana 8237
Chrysodeixis chalcites 2220
Ephestia cautella 8946-8947
Etiella zinckenella 1662
Hydraecia micacea 913
Panolis flammea 3026
Trichoplusia ni 8709
- pheromones
Agrotis segetum 8540
Cacoecimorpha pronubana 64
inhibitors, *Ochroleuca fennica* 9209
Lacanobia suasa 7347
Mamestra brassicae 6303
Spodoptera exempta 409
synthesis 4417
- Tetradecyl acetate**
mixtures
pheromones
Etiella zinckenella 1662
Ostrinia furnacalis 3668
- pheromones
Cacoecimorpha pronubana 64
Cydia 7727
- N-Tetradecyl propionate**, pheromones,
Reticulitermes flavipes 10483
- Tetradifon** (1,2,4-trichloro-5-[(4-chlorophenyl)sulfonyl]benzene)
control
Aculops lycopersici 6942
Polyphagotarsonemus latus 7746
Varroa jacobsoni 1253
- mixtures
control
Aculops lycopersici 6942
Panonychus ulmi 520
Tetranychus urticae 6995
nontarget effects, soil arthropods 1731
residues, sorghum 11584
with dicofol
control, *Tetranychus* 2835
nontarget effects, soil arthropods 1731
- Tetragnatha**
grasslands, Utah 3729
prey, Miridae 3729
taxonomy 10612
- Tetragnatha andamanensis**
biology, phenology 4659
prey, *Nilaparvata lugens* 4659
rice, fields, India 4659
- Tetragnatha caudicula**
biology, behaviour 3691
prey, Delphacidae 3691
rice, fields, Korea Republic 3691
- Tetragnatha elongata**, biology 2121
- Tetragnatha extensa**
grasslands, Switzerland 1517
prey, insects 1517
- Tetragnatha javana**
biology 10612
prey, insect pests 10612
- Tetragnatha laboriosa**
cotton, fields, Texas 8777
prey, cotton, insect pests 8777
- Tetragnatha mandibulata**
biology 10612
prey, insect pests 10612
- Tetragnatha maxillosa**
biology 10612
prey, insect pests 10612
- Tetragnatha nitens**
biology 10612
prey, insect pests 10612
- Tetragnatha vermiformis**
biology 10612
prey, insect pests 10612
- Tetragnatha virescens**
biology 10612
prey, insect pests 10612
- Tetragnathidae**
biology, phenology 162
South Africa 162
- Tetragonia expansa** (see *T. tetragonioides*)
- Tetragonia tetragonioides**, *Myzus persicae* 5837
- 2',3',22,23-Tetrahydroazadirachtin
degradation 3169
toxicity, *Heliothis virescens* 3169
- Tetrahydro-2,2,6-trimethyl-2H-pyran-3-ol**
pheromones, *Pteleobius vittatus* 7076
synthesis 7076
- Tetrahymena pyriformis**, insecticides,
effects 4187
- Tetralicia**
Czechoslovakia 4272
taxonomy 4272
- Tetralicia ericae**, *Erica*, Europe 9912
- Tetralicia iberiaca**
Erica, Europe 9912
taxonomy, new species 9912
- Tetramesa eximia**, parasitoids 9620
- Tetramethrin** ((1,3,4,5,6,7-hexahydro-1,3-dioxo-2H-isoindol-2-yl)methyl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate)
effects, rats 3189
metabolism, rodents 8102
(1R)-cis-trans-, formulations, aerosols 8075
- Tetramorium bicarinatum**
biology, behaviour 5762
prey, *Cosmopolites sordidus* 5762
- Tetramorium caespitum**
almonds, California 523
biology, behaviour 9621
control, cultural control 523
genetics, karyotypes 5426
grasslands, Belgium 9621
Japan 2410
physiology, spermatogenesis 11326
prey, *Liriomyza trifolii* 8759
Spain 5426
Strongylognathus koreanus, interactions 2410
venoms, effects, *Schistocerca gregaria* 2230
- Tetramorium guineense**
bananas, plantations, Cuba 2777
biology 2777
prey, *Cosmopolites sordidus* 2777
- Tetramorium guineense auct.** (see *T. bicarinatum*)
- Tetramorium hispanicum**
cereals, fields, Spain 4613
ecology, population dynamics 4613
genetics, karyotypes 5426
Spain 5426
- Tetramorium impurum**
biology, behaviour 9621
grasslands, Belgium 9621
- Tetramorium semilaeve**
genetics, karyotypes 5426
physiology, spermatogenesis 11326
Spain 5426
- Tetranychidae**
apples
damage 8609
German Federal Republic 3799
Hungary 8594
Netherlands 10709
Ontario 4753
Switzerland 8616
USSR 5738
biological control agents, evaluation 11745
biology 575
carnations, Hawaii 9910
China 7523
Citrus, China 2752
control 5237, 7586, 10670
acaricides 3944, 5162, 5738, 10673
biological control 664, 4957, 5715, 9024
insecticides 2752, 2864, 10671
integrated control 10709
physical control 9748
- crops
China 4957
Italy 2554
distribution, USSR 2375
ecology, population dynamics, models 4753
food plants 2375
Japan 9748
grapefruits, Cuba 575
grapes, Italy 5715
- Tetranychidae cont.**
greenhouse crops, Iraq 5162
groundnuts 664
Egypt 662
pathogens 6092
pheromones 71
potatoes, Egypt 2864
predators 575, 662, 1342, 4753, 7523, 8594, 10464
sampling 4420
small fruits
Belgium 10671
German Democratic Republic 10670
strawberries, Belgium 10673
sugarcane, Pakistan 7586
tobacco, Zimbabwe 3944
USA 6092
- Tetranychina harti**
biology, diapause 3633
Oxalis, Greece 3633
- Tetranychus**
biology 588
cassava, Colombia 9841
control, insecticides 6980
cotton, Arizona 6980
greenhouse crops, USSR 588
morphology 588
predators 9841
- Tetranychus amicus**, distribution, South Africa 1191
- Tetranychus cinnabarinus**
biology 588
control
acaricides 4922, 10752, 11693
integrated control 10847
cotton 1293, 1742
China 9866
South Africa 4922
ecology, population dynamics 9866
greenhouse crops
France 10752
Poland 6856
USSR 588
Hawaii 1971
melons, resistance 11707
morphology 588
natural enemies 1971
okras, India 11693
predators 1293, 1742, 3532, 8600
resurgence 11693
tomatoes, Israel 10847
watermelons, India 10780
- Tetranychus cucurbitacearum**
control, acaricides 2835
Egypt 324
fertilizers, effects 654
groundnuts, Egypt 662
predators 662
soyabeans, Egypt 654, 2835
- Tetranychus cucurbitae** (see *T. neocaledonicus*)
- Tetranychus kanzawai**
acaricides, toxicity 10105
biology, environmental factors 6989
food plants, Japan 3748
genetics, sex ratio 3748
tea 6989
- Tetranychus lombardinii**
cotton, South Africa 9883
distribution, South Africa 1191
- Tetranychus macfarlanei**
aubergines, India 11761
biology 5877
control
acaricides 11761
insecticides 2794-2795, 3841
cotton, India 5877
okras, India 2794-2795, 3841
- Tetranychus marianae**, Brazil 6452
- Tetranychus neocaledonicus**
aubergines, India 3919
Brazil 6452
control, acaricides 3919
- Tetranychus pacificus**
acaricides, resistance 2719, 4935, 11162
almonds, California 2719, 7720
biology, environmental factors 7720
cotton 3943
dust, effects 9791

- Tetranychus pacificus* cont.**
 ecology, population dynamics 3943
 food plants 9791
 genetics 11162
 acaricide resistance 2719
 grapes, damage 11626
Phaseolus lunatus 10441
 predators 8345, 9791, 10441, 11452
- Tetranychus quercivorus***
Quercus mongolica, Japan 11826
 taxonomy, new species 11826
Tetranychus viennensis, differentiation 11826
- Tetranychus telarius* (see *T. urticae*)**
- Tetranychus turkestanii***
 biology 588
 cotton 5880
 resistance 4929
 USSR 5876
 greenhouse crops, USSR 588
 morphology 588
- Tetranychus urticae***
 acaricides
 effects 10688
 resistance 935, 2737, 2746, 3161, 3790, 4935, 6819, 6995, 9058-9059, 11162
 toxicity 941, 1697, 10110, 11198, 11731, 11963
 apples 9203
 Japan 3790
 New York 2737
 Ontario 4750
 Quebec 8612
 Switzerland 3789
 aubergines 2890
 India 3855
 beans 4847
 biology 575, 588, 745, 1697, 4474, 5880, 11756
 behaviour 628, 3621, 4847
 diapause 3369, 4908
 oviposition, models 9653
 black currants, Poland 8561
 Cactaceae 7898
 control 8770
 acaricides 910, 1599, 2748, 2835, 3855, 3931, 4713, 6995, 7898, 8561, 8612, 10689, 10752, 11643, 11787
 biological control 502, 621, 2786, 3835, 3865, 3964, 5694, 5799, 5862, 8630, 10750, 11786
 insecticides 274, 4716, 8771
 integrated control 3640, 7785
Convolvulus arvensis 3621
 cotton 5880
 Brazil 745, 3931, 8770-8771
 California 4935
 resistance 4929, 5873
 South Africa 9883
 USSR 274
 cucumbers
 German Democratic Republic 621
 Italy 7785
 Scandinavia 6170
 Switzerland 5799
Cymbidium, German Federal Republic 11786
 ecology
 population density 9654
 population dynamics 2844, 2890, 3789, 6785
 Egypt 324
 fertilizers, effects 11714
 figs, Iran 566
 food plants 6120, 8426, 11756
 fruit trees
 USA 10689
 USSR 5694, 11643
 fruits 10688
 genetics 11162
 grapefruits, Cuba 575
 grapes
 Europe 6228
 Switzerland 8575
 greenhouse crops 5862
 Austria 2786
 France 10752
 German Democratic Republic 910, 3835
- Tetranychus urticae* cont.**
 greenhouse crops cont.
 German Federal Republic 3964
 Norway 10750
 Poland 6856
 USSR 588, 1599
 groundnuts, Egypt 662
 herbicides, effects 9084
 hops, Romania 3640
 insecticides
 effects 2015, 6170
 metabolism 10437
 toxicity 11079
 limes, damage 10733
Lycopersicon hirsutum, resistance 7836
 maize, resistance 7607
 monitoring 8575
 traps 2786, 8770
 morphology 588, 2125
 ornamental plants, German Federal Republic 11787
 pathogens 6092
 pears
 Italy 8621
 Oregon 2746, 2748, 6819
Pelargonium hortorum, resistance 8799
 pesticides
 effects 4184
 toxicity 2880
Phaseolus lunatus 628, 4474, 7794
Phaseolus vulgaris 9084, 11198, 11714
 physiology
 digestive system 9084
 enzymes 2015, 10437
 respiration 9203
Phytoseiulus persimilis, interactions, models 4474
 plant extracts
 growth regulators 987
 repellents 2583
 toxicity 7185
 predators 220, 573, 575, 662, 2494, 3789, 4750, 5502, 6120, 7794, 8630-8631, 11439, 11643
Pyrus pyrifolia, Korea Republic 8618
 raspberries, Chile 4716
 rearing techniques 5502
 research, conferences 10214
Ricinus communis 573
 Egypt 4908
Rosa, Queensland 6995
 sampling 745
 small fruits, Switzerland 5700
 soyabeans 2844
 damage 5814
 Egypt 2835
 resistance 11731
 stone fruits, Queensland 8630
 strawberries
 Costa Rica 4713
 New Zealand 6785
 resistance 9652-9653
 USSR 502
 Washington 9654
 sweet potatoes 1697
 taxonomy 2125
 tomatoes, resistance 8760
 USA 6092
 vegetables, German Democratic Republic 3865
- Tetranychus viennensis***
 apples, China 7735
 control
 acaricides 11643
 biological control 7735
 fruit trees, USSR 11643
 predators 11643
Tetranychus quercivorus, differentiation 11826
- Tetraopes femoratus***
 biology 1193
 food plants 1193
 USA 1193
- Tetraopes pilosus***
 food plants 1193
 USA 1193
- Tetraopes tetraphthalmus***
 biology 1193
 food plants 1193
 USA 1193
- Tetraponera rufonigra***
 biology, behaviour 10413
 India 10413
 prey, insects 10413
- Tetrapus***
 figs 1572
 parasitoids 1572
- Tetrastes bonasia***, prey, bilberries, insect pests 7714
- Tetrastichus***
 biology 5755
 phenology 4677
 cabbages, fields, India 10773
 China 6551
Citrus, orchards, Japan 1581, 6832
 coffee
 plantations
 Brazil 9893
 Costa Rica 4953
 control, *Drosophila flavohirta* 2992
 cotton, fields, India 1733
Eucalyptus
 habitats 2992
 plantations, Brazil 10914
 Greece 2993
 hosts
 Asphondylia riveae 2576
 Chilocorus kuwanae 6832
 Chrysodeixis eriosoma 10773
 Conopomorpha cramerella 10737
 Contarinia sorghicola 1493, 4677
 Cydia leucostoma 2935
 Datana integerrima 2717
 Drosophila 2992
 Earias vittella 1733
 Eueides isabella 5755
 forest pests 10914
 Idioscopus clypealis 11677
 Neolasioptera rostrata 3618
 Oulema oryzae 6551
 Parasa viridissima 1542
 Perileucoptera coffeella 9893
 Phyllocnistis citrella 1581
 Prodiplosis platani 1868
 Rothschildia orizaba 4953
 Thaumetopoea pityocampa 2993
 India 2576
 insecticides, toxicity 3497, 11677
 mangoes, orchards, India 11677
 morphology 4677
 New South Wales 2992
 Nigeria 1542
 orchards, Taiwan 10737
 passion fruits, orchards, Brazil 5755
 sorghum
 fields
 Argentina 4677
 Puerto Rico 1493
 South Africa 2992
 tea, plantations, India 2935
 walnuts, orchards, Mexico 2717
- Tetrastichus ainsliei***
 biology, overwintering 2899
 hosts, *Cylindrocopturus adspersus* 2899
 sunflowers, fields, North Dakota 2899
- Tetrastichus ayyari* (see *T. howardi*)**
- Tetrastichus brontispae***
 control, *Brontispa longissima* 3760
 Western Samoa 3760
- Tetrastichus bruchophagi* (see *Aprostocetus bruchophagi*)**
- Tetrastichus bruzzonis* (see *Aprostocetus bruzzonis*)**
- Tetrastichus ceroplastae***
Citrus, orchards, Israel 3811
 hosts, *Ceroplastes floridensis* 3811
- Tetrastichus chlamytis***
 hosts, *Neochlamisus platani* 5016
 Maryland 5016
- Tetrastichus gallerucae***
 biology, behaviour 9419
 hosts, *Pyrrhalta luteola* 9419
- Tetrastichus howardi***
 hosts, *Campoletis chlorideae* 2886
 tomatoes, fields, India 2886
- Tetrastichus incertus***
 control, *Hypera postica* 9640
 lucerne, fields, California 9640
- Tetrastichus israelensis***, hosts, *Opisina arenosella* 9649

- Tetrastichus israeli***
hosts, *Opisina arenosella* 10458
insecticides, toxicity 10458
- Tetrastichus megachilidis***
fungicides, effects 9445
hosts, *Megachile rotundata* 9445
- Tetrastichus neglectus*** (see *Aprostocetus neglectus*)
- Tetrastichus ovulorum***, hosts, *Epilachna ocellata* 2812
- Tetrastichus servadeii***
Cedrus, forests, Morocco 7021
forests, Italy 5932
hosts
 Thaumetopoea bonjeani 7021
 Thaumetopoea pityocampa 5002, 5932
 Pinus nigra, forests, Italy 5002
- Tetrastichus sokolowskii***
biology 7768
hosts, *Plutella xylostella* 6880, 7768
Japan 6880, 7768
- Tetrastichus strobilana*** (see *Aprostocetus strobilanae*)
- Tetratheca stenocarpa***, Formicidae, Victoria 10396
- Tetrigidae**, distribution, Michigan 1222
- Tetrix fuliginosa***
biology 3367
USSR 3367
- Tetropium***, *Picea abies*, wood, damage 8955-8956
- Tettigonia viridissima***
biology 7432
Spain 7432
- Tettigoniidae**
biology 7432
behaviour 5365
distribution, Michigan 1222
Europe 9269
evolution 4286
food, man 1355
grasses, Kansas 8528
Phoetaliotes nebrascensis, interactions 8528
physiology
 sense organs 10298
 sound production 9228
 water relations 9269
prey, *Anticarsia gemmatilis* 4862
research projects 5423
soybeans, fields, Florida 4862
Spain 7432
- Teucrium***, extracts, antifeedants, Noctuidae 10537
- Teucrium polium* subsp. *vincentinum***, extracts, antifeedants, insects 6674
- Teucrium scorodonia***, pollen, Formicidae, germination 9924
- Texocoris nigrellus***
distribution, USA 2939
ornamental plants 2939
- Textiles**
insect pests, control 7256
insecticides
 penetration 6176
 residues 6020, 8933, 11200
pesticides, contamination 6177
stored products pests 1892
Tinea pellionella 1888
- Thailand**
Apis dorsata, ectoparasites 10450
Apis mellifera, ectoparasites 6576, 9431
cabbages, pest control 1413
Cryptolestes cornutus 6044
Galerucinae 2134
Helicoverpa armigera 2922
 pathogens 7881
Matsumuratettix hiroglyphicus 8453
Mimosa pigra
 biological control agents 8428
 natural enemies 8418
Plutella xylostella 2798, 5783, 6404
Rhopalocera 9297
Scirpophaga incertulas 10611
Seydmaenidae 9153
Tetragnatha, prey 10612
- Thalarectos maritimus***, insecticides, residues 11224
- Thanasimus dubius***
attractants 10955
biology, behaviour 10955
Pinus resinosa, forests, Wisconsin 10955
prey, *Ips pini* 10955
- Thanasimus formicarius***
attractants 803, 2990, 4044
biology, behaviour 4044
Norway 2990
Pinus sylvestris, Sweden 803
prey
 Scolytidae 4044
 Trypodendron lineatum 2990
- Thaumatomyia glabra***
California 8732
prey, *Pemphigus populivenerae* 8732
- Thaumetopoea bonjeani***
biology 7021
Cedrus, Morocco 7021
morphology 7021
parasitoids 7021
- Thaumetopoea pinivora***, morphology 7021
- Thaumetopoea pityocampa***
biology 5932, 7021
 environmental factors 795, 3016
Cedrus, Morocco 7021
ecology, population dynamics 2978
forest trees, Spain 8872
growth regulators, toxicity 10987
Italy 8850
morphology 7021
parasitoids 2993, 5002, 5932-5933
pathogens 8850
pheromones 8239
 inhibitors 8872
physiology, pheromones 2211, 11308
Pinus, Italy 5932-5933
Pinus brutia, Greece 795
Pinus halepensis, Greece 2993, 3016
Pinus nigra, Italy 2978, 5002
Pinus pinaster, Greece 1795
Spain 8239
- Thaumetopoea processionea***
biology 5932
parasitoids 5932
Quercus, Italy 5932
- Thaumetopoeidae**
crops, Spain 1373
distribution, Spain 6218
parasitoids 7505
- Thea cincta*** (see *Psyllobora cincta*)
- Thea sinensis*** (see *Tea*)
- Theba pisana***
biology 369
cereals, Australia 369
control 369
- Theba pisana arietina***, distribution, Portugal 8406
- Thecodiplosis brachyntera***, *Pinus sylvestris*, German Federal Republic 10942
- Thecodiplosis japonensis***
biology 7912
cold resistance 843
Japan 9929-9930
Korea Republic 10434
parasitoids 10434
Pinus
 galls 9929-9930
 Japan 7912
 Korea Republic 843
- Thelaxidae**, physiology, enzymes 1060
- Theobroma cacao*** (see *Cocoa*)
- Theobroma mammosum***, oils, attractants, insects 3946
- Theobroma simiarum***
Chrysomelidae, Puerto Rico 5899
oils, attractants, insects 3946
- Theobroma speciosum***
Chrysomelidae, Puerto Rico 5899
oils, attractants, insects 3946
- Theophylline***, effects, *Manduca sexta* 10336
- Thereon circumflexum***
hosts, *Mythimna unipuncta* 6536
Quebec 6536
- Theresimima ampelophaga***
grapes
 Israel 2445
 Italy 519
parasitoids 2445
- Therevidae**
Palearctic Region, books 5232
taxonomy 5232
- Theridiidae**
groundnuts, fields, India 8722
morphology 8378
taxonomy 8378
- Theridion**
prey, *Oligonychus indicus* 4675
sorghum, India 4675
- Theridion australe***
cotton, fields, Texas 2906
prey, Aphididae 2906
- Theridion grillator***
forests, Hawaii 5458, 11819
genetics, polymorphism 5458
Hawaii 9412
morphology, colour 9412, 11819
- Theridion octomaculata***
biology, behaviour 4663
prey, *Nilaparvata lugens* 4663
rice, fields, China 4663
- Theridion octomaculatum*** (see *Coleosoma octomaculatum*)
- Theridion pictum***
forests, Maine 9949
prey, *Choristoneura fumiferana* 9949
- Theridion rufipes***
biology
 behaviour 9411
 development 4518
- Theridula**
prey, *Oligonychus indicus* 4675
sorghum, India 4675
- Therioaphis**
Astragalus, Asia 6261
taxonomy 6261
synonyms, *Rhizoberlesia* 6261
- Therioaphis maculata*** (see *T. trifolii* form *maculata*)
- Therioaphis trifolii***
biology 5689
control 5689
fodder crops, Chile 5689
lucerne, Sudan 4701
natural enemies 5689
parasitoids 4701
- Therioaphis trifolii* form *maculata***
biology, behaviour 2682, 7695
ecology, distribution 11607
lucerne
 Iran 9639
 Italy 9631, 11607
 Minnesota 7696
 resistance 1534, 2681-2682, 7687, 7695, 10655
 varietal susceptibility 7688-7692
natural enemies 9631
pasture legumes, New South Wales 3736
sampling 11607
- Therioaphis trifolii* form *trifolii***, biology, phenology 9631
- Therion circumflexum***
forests, Hungary 8851
hosts, *Dendrolimus pini* 8851
- Thermobia domestica***
biology, moulting 9193
Egypt 281
physiology
 chemical composition 7375
 endocrine system 93
Psammotermes hybostoma, interactions 281
- Theronia**
hosts, *Eueides isabella* 5755
passion fruits, orchards, Brazil 5755
- Theronia atalantae***
hosts, Lepidoptera 2982
Quercus, forests, Romania 2982
- Theses**
Agrotis ipsilon, parasitoids, behaviour 2122
Centaurea, biological control 8191
Cicadellidae, taxonomy 3223
Ips typographus, monitoring 4249
organophosphorus insecticides, effects, man 5249
Scolytidae, migration 4250
Tetragnatha elongata, biology 2121

- Thespesia populnea***
Amrasca devastans, varietal susceptibility 7875
Anthonomus grandis 5879
 extracts, effects, *Anthonomus grandis* 5879
Pectinophora scutigera 6456
Thevetia nerifolia (see *T. peruviana*)
Thevetia peruviana
Earias vittella 11502
 effects, *Earias vittella* 5282
 extracts, effects, *Lipaphis erysimi* 614
Thiacidas postica, physiology, reproductive organs 6357
Thiazolylurea, effects, Noctuidae 10163
Thimet (see Phorate)
Thiobencarb, residues, lakes 5217
***N,N'*Thiocarbonyldibenzimidazole**, effects, *Drosophila melanogaster* 11303
Thiocyclam (*N,N*-dimethyl-1,2,3-trithian-5-amine)
 control
Anthonomus rubi 8557, 10672
Euprosterna laesa 1543
Leptopharsa gibbicarina 1543
Liriomyza trifolii 11782
 rice, insect pests 8503
Stenoma impressella 1543
 sugarcane, insect pests 4611
Thiodan (see Endosulfan)
Thiodicarb (dimethyl *N,N'*-[thiobis(methylimino)carboxyloxy]]bis[ethanimidothioate])
 control
Agrotis ipsilon 4942
Amrasca biguttula 601, 2793
 apples, arthropod pests 8612
 Gastropoda 356, 6627
Hieroglyphus banian 3713
Melanagromyza obtusa 5830
 Noctuidae 6981
Spodoptera exigua 2635
Spodoptera frugiperda 4633, 8497
 effects, *Glabromicroplitis croceipes* 4916
 mixtures, toxicity, *Heliothis virescens* 2921
 nontarget effects, cereals 7580
 residues, soyabeans 2834
 resistance
Heliothis virescens 2921
Spodoptera littoralis 3935
 synergism 2921
 toxicity
Choristoneura occidentalis 3002
Heliothis virescens 11976
Platynota idaeusalis 6813
Somaticus 5627
Somaticus geniculatus 6716
Zeiraphera canadensis 8853
Thiodina puerpera
 cotton, fields, Mississippi 1734
 prey, *Lygus lineolaris* 1734
Thiofanox (3,3-dimethyl-1-(methylthio)-2-butanone *O*-[(methylamino)carbonyl]oxime)
 control
 jute, arthropod pests 2928
 onions, insect pests 9845
 toxicity, *Folsomia candida* 12006
Thiometon (*S*-[2-(ethylthio)ethyl] *O,O*-dimethyl phosphorodithioate)
 control
Atherigona 416
 aubergines, insect pests 11757
Lipaphis erysimi 11699
Oligonychus indicus 2664
Quadrastipidiotus perniciosus 9681
 nontarget effects, *Apis florea* 1571
 pollutants, rivers, Europe 11223
 residues, rivers 9095
 toxicity, maize 416
Thiona bullata
 biology 2955
 morphology 2955
Pinus, USA 2955
Thiona simplex
 biology 2955
 food plants, USA 2955
 morphology 2955
Thionex (see Endosulfan)
Thiophanate methyl, mixtures, nontarget effects, Phytoseiidae 6837
Thiosulfuric acid *S,S'*-[2-(dimethylamino)-1,3-propanediyl ester disodium salt], control, *Oxya chinensis* 3685
Thiosulfuric acid *S,S'*-[2-(dimethylamino)-1,3-propanediyl ester disodium salt], control
Andraca bipunctata 4958
Malacosoma neustria 5165
Thiosulfuric acid *S,S'*-[2-(dimethylamino)-1,3-propanediyl] ester disodium salt, control, *Neodiprion guangxiicus* 2974
Thiotepa (1,1',1''-phosphinothioylidene-tris[aziridine])
 effects, *Bactrocera dorsalis* 4180, 7399
 sterilization, *Sternonchus frigidus* 6387
Thiourea
 effects, *Callosobruchus chinensis* 6388
 toxicity, *Odoiporus longicollis* 6389
Thiram (tetramethylthioperoxydicarbonic diamide [(Me₂N)C(S))₂S₂])
 control, *Atherigona approximata* 5632
 deterrents, *Diabrotica undecimpunctata* 1414
 effects, pearl millet, commodities 11055
 insecticides, interactions 10815
 mixtures
 control
Atherigona approximata 5632
 rape, insect pests 6865
 with isofenphos
 control
 Coleoptera 2803
Psylliodes chrysocephala 3850
Thisbe irenea
Croton billbergianus, Panama 2977
Ectatoma ruidum, interactions 2977
Thlaspi arvense, *Ceutorhynchus constrictus* 7774
Thlaspi perfoliatum, *Rhopalus tigrinus*, Pennsylvania 335
Thomasiniana ribis (see *Resseliella ribis*)
Thomisidae
 checklists, Saudi Arabia 11457
 ecology 3889
 groundnuts, fields, Texas 3889
 prey, arthropods 3889
 taxonomy 2358, 11457
Thomisus, taxonomy 2358
Thoracotermes macrothorax
 forests 5914
 soil, interactions 5914
Thripidae, groundnuts, Texas 6905
Thripobius semiluteus
 distribution, Brazil 4521
 hosts, *Heliothrips* 4521
Thrips (see Thysanoptera)
Thrips carthami
 apples, India 3784
 control, insecticides 3784
Thrips coloratus, distribution, Australia 3232
Thrips flavus
 apples, India 3784, 11644
 control, insecticides 3784
Thrips florum, onions, India 8753
Thrips fuscipennis, greenhouse crops, German Federal Republic 3836
Thrips hawaiiensis
 India 6845
 Indonesia 1541
 oil palms, pollination 1541
 sapodillas, pollination 6845
Thrips nigropilosus
 food plants, New Zealand 8420
Tanacetum cinerariifolium, Kenya 9513
Thrips palmi
 Asia 6455
 biology 10510
 control, insecticides 10751
 distribution
 maps 6455
 Martinique 3838
 greenhouse crops, Japan 4907
 growth regulators, effects 9728
 melons 9728
 Japan 6878
 monitoring 4907
***Thrips palmi* cont.**
 pathogens 6878
 predators 7528
 vegetables 3838
 Martinique 10751
 watermelons, Hawaii 3866
 weeds 10510
Thrips simplex
 distribution, maps 6454
 ornamental plants 6454
Thrips tabaci
Allium, Taiwan 11749
 biology 730
 environmental factors 6121
 overwintering 9524
 phenology 515, 1624
 cabbages
 Brazil 4823
 New York 1623-1624
 resistance 1621
Capsicum annuum 3920
 chrysanthemums, Italy 9921
 control 4837, 5236
 biological control 622, 3862-3863, 5798-5799, 10750, 11706
 cultural control 7817
 insecticides 714, 746, 1683, 4823, 4897, 4933, 5857, 5891, 6940, 7829-7830, 8750, 9845, 10863
 cotton, India 746, 4933, 5891, 10863
 cucumbers
 British Columbia 3863
 Finland 5798
 Netherlands 3862
 Switzerland 5799
 UK 4837
 USSR 11706
 ecology
 distribution 11749
 population dynamics 4721
 food plants 6121
 Texas 9524
 garlic, USSR 720
 grapes, South Africa 515, 4721
 greenhouse crops
 Denmark 622
 German Federal Republic 3836
 Norway 10750
 monitoring, traps 9921
 natural enemies 5236
 onions
 Brazil 714, 8750
 damage 8751
 India 7828-7830, 8753, 9845
 Pakistan 4897
 Texas 5857, 6940
 plant viruses, transmission 730
 potatoes, Egypt 1683, 7817
 predators 224, 515, 2494, 3532, 3920, 4721
 sampling 11749
Tanacetum cinerariifolium, Kenya 9513
Thripstick (see Deltamethrin)
Thrycolyga bombycis (see *Exorista sorbillans*)
Thuja
 Coleoptera, France 1871
 Curculionidae, Belgium 1876
Thuja occidentalis
Argyresthia thuiella 7067
Thyridopteryx ephemeraeformis, economic thresholds 6999
Thuja orientalis, *Cinara tujaefilina*, Japan 7930
Thuricide (see *Bacillus thuringiensis*)
Thuricide HP (see *Bacillus thuringiensis* subsp. *kurstaki*)
Thuringiensin
 control
Cornitermes cumulans 3464
Lygus 2680
Spodoptera exigua 9560
Tetranychus urticae 3931, 4713
 metabolism, potatoes 6919
 mixtures, control, *Leptinotarsa decemlineata* 2873
 toxicity
Drosophila melanogaster 6065
Tetranychus urticae 11079

- Thyanta pallidovirens***
biology, oviposition 9792
legumes 9792
- Thymelicus lineola***
ecology 6392
UK 6392
- Thymelicus sylvestris***
ecology 6392
UK 6392
- Thymol**
control, *Varroa jacobsoni* 1245
phagostimulants, *Carpophilus hemipterus* 8498
- Thymus**
arthropod pests, Italy 11523
Blaste dydyma, Spain 8830
- Thyraylia bunteana***
parasitoids 8425
Texas 8425
- Thyridopteryx ephemeraeformis***
biology, behaviour 4996
forest trees, Virginia 4996
Juniperus virginiana, Virginia 3008, 8899
morphology 5300
parasitoids 3008, 8899
physiology, pheromones 5300
Thuja occidentalis, economic thresholds 6999
- Thyropygus nigrolabiatus***
diets 2855
vegetables, India 2855
- Thyroxine**, effects, *Bombyx mori* 290, 8399
- Thysanoflorinia leei***
distribution, India 10716
Litchi chinensis 10716
- Thysanogyna limbata***
biology 5028
control, insecticides 5028
Firminia simplex, China 5028
natural enemies 5028
- Thysanoplusia orichalcea***
biology
environmental factors 4355
phenology 1675
Cicer arietinum, Bangladesh 1675
control
cultural control 1652
insecticides 5813, 9845
distribution, maps 6455
insecticides, toxicity 736
Morocco 1034
natural enemies 872
onions, India 9845
plant density, effects 4863
potatoes, India 2867
row spacing, effects 11723
soyabeans, India 4863, 11723
Spain 4355
sunflowers 736
Vigna, India 1652
Vigna radiata, India 5813
- Thysanoptera**
apricots, India 11654
aubergines, India 11757-11758
biology 3674
reproduction 6259
buckwheat, Poland 11534
Capsicum annuum 3920
carnations, Hawaii 9910
cereals, USSR 4615
checklists, Bermuda 152
Chile 5231
control 5236-5237
biological control 7786, 9024, 11113
insecticides 388, 910, 2864, 2919, 3674, 3917, 4615, 5887, 10861, 11757-11758
integrated control 8628
cotton
Arizona 2919, 7867
Louisiana 10861
South Carolina 5887
cucumbers, Czechoslovakia 7786
distribution
Algeria 4394
Australia 3232
California 1984
Poland 8293
ecology, population dynamics 11534
- Thysanoptera cont.**
Eucharitidae, interactions 4153
food plants 152
forests, Korea Republic 8882
grapes, Switzerland 11624
greenhouse crops
German Democratic Republic 910, 11113
Switzerland 5774
India 2468, 12021
maize, damage 3674
monitoring 10861
mosses 8205
North America 9165
peaches
Georgia 8634
Italy 8628
potatoes, Egypt 2864
predators 662
sampling 7867
Stellaria media, pollination 1395
taxonomy 3232, 4394, 6259, 6807, 8205, 9165
tomatoes, Brazil 3917
wheat, German Democratic Republic 388
- Thysanura**
biology 1896
control 1896
distribution, USSR 4398
North America 9159
stored products 1896
taxonomy 9159
- Tibellus**
grasslands, Utah 3729
prey, Miridae 3729
- Tidarren haemorrhoidale***
cotton, fields, Texas 2906
prey, Aphididae 2906
- Tiger** (see Pyriproxyfen)
- Tilapia***, insecticides, toxicity 6174
- Tilapia aurea***, insecticides, residues 7200
- Tilapia mossambica***
insecticides
effects 8095, 8097
toxicity 8123
- Tilapia nilotica***
control, rice, insect pests 7703
insecticides, residues 7207
- Tilia**
Aphididae, Czechoslovakia 4011
forests
Chilopoda, Poland 7049
Gastropoda, Poland 6615
insects, Poland 7048
- Tilia cordata***
Ichneumonidae, Poland 2440
Tenthredinidae, Poland 4038
- Tilia euchlora***, toxicity, beneficial insects 206
- Tilia heteropholia***, *Acrosternum hilare*, Canada 7057
- Tilia tomentosa***
Popillia japonica 11820
toxicity, beneficial insects 206
- Tiliacora acuminata***, *Mimicurus beesoni* 804
- Tillage**
effects
Araneae 11592
Delia platura 9801
mites 10353
soil arthropods 2601
soyabeans, insect pests 11729
- Tillancoccus***, taxonomy, new genus 4965
- Tillancoccus mexicanus***
taxonomy, new species 4965
Tillandsia juncea, Mexico 4965
- Tillancoccus tillandsiae***
taxonomy, new species 4965
Tillandsia, Guatemala 4965
- Tillandsia***, Coccidae 4965
- Tillandsia juncea***, *Tillancoccus mexicanus*, Mexico 4965
- Tillus notatus***
Japan 9448
prey, *Stegobium paniceum* 9448
- Timbers**
Camponotus 6513
Chironomidae, Oregon 11045
- Timbers cont.**
Coptotermes formosanus, South Carolina 2526
insect pests
bibliographies 8155
predators 5055
reports 6244
Platypus, Florida 7043
Urocerus flavicornis
Canada 1192
Norway 1192
- Tinea dubiella***, Hungary 2371
- Tinea pellionella***
biology 1896
control 1896
fumigants 1888
stored products 1896
textiles 1888
- Tineidae**
Hungary 6314
museum specimens, USSR 1890
pheromones 6314
phylogeny 5
USSR, books 11253
yams, commodities, India 7089
- Tineoidea**, phylogeny 5
- Tineola bisselliella***
biology 1896
control 1896
controlled atmospheres 5079
insecticides, toxicity 1892
museum specimens 5079
physiology, enzymes 41
stored products 1896
wool 1892
- Tinocallis kahawaluokalani*** (see *Sarucalis kahawaluokalani*)
- Tinocallis saltans***
India 2967
morphology 2967
- Tipuana speciosa***, wood, *Psammotermes hybostoma*, damage 3067
- Tipula**
ecology, distribution 8524
grasslands, UK 11595
monitoring 8524
sampling 11595
UK 8524
- Tipula oleracea***
insecticides, effects 10095
plants, UK 10095
rearing techniques 2396
- Tipula paludosa***
control, insecticides 1511
food plants, UK 1511
pathogens 4093
physiology
flight 8227-8228
haemolymph 4093
rearing techniques 2396
soil, decomposition 1367
Trifolium repens, varietal susceptibility 3745, 7701
UK 1367
- Tipulidae**
Chile 8985
control, cultural control 7674
distribution, Yugoslavia 11388
grasslands, UK 7674
insecticides, effects 8537
pastures, UK 8537
pathogens 8985
taxonomy 5252
Trifolium repens, varietal susceptibility 7701
- Tischeria**
parasitoids 10972
Quercus, Japan 10972
- Tischeria ekebladella***, *Quercus robur*, Hungary 1807
- Tjederina gracilis***, biology, development 2477
- Tobacco** (*Nicotiana tabacum*)
Aculops lycopersici 6457
Agrotis, Yugoslavia 8790
Agrotis ipsilon, Brazil 4942
Agrotis segetum, USSR 2929
Argyrogramma signata 6458
arthropod pests
control, botanical insecticides 1990
Italy 11636

Tobacco *cont.*

- arthropod pests *cont.*
- Zimbabwe 3944
- Asia 3416
- Athetis hospes*, damage 5895
- attractants, *Eucelatoria bryani* 7873
- commodities
- Coleoptera, Taiwan 853
- insect pests, Zimbabwe 3944
- insecticides, residues 4943, 4945, 5084
- Lasioderma serricorne* 6024
- control, Acari 1254
- effects, *Manduca sexta* 3945
- Epitrix hirtipennis*, Italy 9890
- Euxoa messoria* 5896
- Ontario 10874
- extracts
- control, *Cydia pomonella* 1553
- effects, Noctuidae 10872
- fields
- Anaphes*, Ontario 7882
- Jalysus wickhami*, North Carolina 4946
- parasitoids, Italy 9888
- Trichogramma*, USSR 2929
- genetics, genetic engineering, pest resistance 3136, 5893
- habitats, *Telenomus remus* 8370
- Helicoverpa armigera*, USSR 3833
- Helicoverpa assulta* 8786
- Korea Republic 4898
- Helicoverpa zea*, Georgia 2932
- Heliothis virescens*, damage 756
- India, entomology, reports 6985
- insect pests, Cuba 1746
- insecticides, residues 4943-4945
- Lepidoptera, Italy 9888
- Manduca sexta* 2210
- resistance 5893
- Myzus nicotianae* 10870
- North Carolina 2933, 10873
- Myzus persicae* 876, 1745, 5859, 10871
- USSR 8787
- Noctuidae
- Italy 9889
- resistance 758
- Oulema melanopus*, Ontario 7882
- pest control 1583
- German Federal Republic 7260, 8070
- Zimbabwe 1600
- pest resistance, genetic engineering 3138
- Spodoptera litura* 5897, 8370
- India 6984, 7883, 8788
- Indonesia 8789
- Philippines 5894
- Zimbabwe, reports 3944
- Tobacco etch potyvirus**
- vectors
- Myzus nicotianae* 10873
- Myzus persicae* 10871
- α -Tocopherol**, mixtures, effects, *Trichoplusia ni* 9049
- Toddalia asiatica*, *Orthezia insignis*, India 3979
- Toechorhynchus**
- hosts, *Eueides isabella* 5755
- passion fruits, orchards, Brazil 5755
- Togo**
- Hypothenemus hampei*, parasitoids 6986
- pest control 1990
- Prostephanus truncatus* 3055
- Rastrococcus invadens*, parasitoids 563, 6777
- stored products pests 3054
- Togpelenys*, taxonomy, new genus 4450
- Togpelenys gigantea*
- Leptogenys*, interactions 4450
- taxonomy, new species 4450
- Tokuthion** (*see* Prothiofos)
- Toltrazuril**, control, *Nosema* 8023
- Tolyfuandil**, control, *Aculus schlechtendali* 8614
- Tolypocladium**, soil, Finland 6099
- Tomares ballus**
- Astragalus lusitanicus*, Spain 1400, 5573
- biology, behaviour 1400

Tomatine, effects, *Beauveria bassiana* 878

α -Tomatine, effects, *Helicoverpa zea*, pathogens 11086

Tomato big bud, vectors, Aphididae 6853

Tomato bunchy-top virus, vectors,

Aphididae 6853

Tomato leaf curl virus, vectors, *Bemisia*

tabaci 1924, 4088

Tomato mosaic tobamovirus, vectors,

Aphididae 6853

Tomato spotted wilt virus

vectors

Frankliniella occidentalis 6905,

10904

Thysanoptera 730

Tomato yellow leaf curl geminivirus

detection 10846

vectors, *Bemisia tabaci* 1711, 10846-

10847

Tomatoes (*Lycopersicon esculentum*)

Acari, Panama 1713

Aculops lycopersici 6457

Brazil 6942

damage 7838

Aleyrodidae, Canada 9925

Aphididae

Afghanistan 6853

Italy 10841

Japan 9846

Philippines 10842

arthropod pests

control, integrated control 10847

German Democratic Republic 3865,

7550

Israel 10847

Italy 11637

Norway 10750

Sardinia 11620

Sicily 11655

arthropods, Austria 2786

attractants, *Eucelatoria bryani* 7873

Bemisia tabaci 10846

Campoletis sonorensis 2883

commodities, *Drosophila busckii*, dam-

age 7990

Cyrtopeltis nicotianae 8785

Dorylus orientalis, China 9737

effects, *Empoasca fabae* 9786

Faustinus rhombifer, Panama 5861

fields

natural enemies, India 2886

parasitoids

California 9851

North Carolina 727

Trichogramma, California 8762

Trichogramma evanescens, USSR

11754

Trichogrammatidae, Queensland

5776

Helicoverpa

economic thresholds 10845

Queensland 5776

Helicoverpa armigera 2848, 4811,

11752

India 2886, 10848

USSR 3833

varietal susceptibility 2885, 3918,

9852

Helicoverpa zea 8758

economic thresholds 9851

Hemiptera, USSR 728

insect pests

Brazil 3917

California 4904

Central America 1712

control, insecticides 4904

Puerto Rico 1714

resistance 11753

insecticides

effects 1715, 3195

residues 4201, 4905, 7207, 7834,

9696, 10849, 11755

intercropping, *Phaseolus vulgaris*, pest

control 9787

Keiferia lycopersicella 4900

California 726

Lepidoptera

California 8762, 9851

resistance 8763

Venezuela 5860

Tomatoes *cont.*

- Leptinotarsa decemlineata*
- New Jersey 4883, 7833, 7839
- resistance 724, 9848
- USA 4903
- USSR 7834
- Liriomyza* 9849
- Liriomyza bryoniae* 9850
- Liriomyza trifolii* 8759
- food preferences 6943
- Hungary 11782
- Macrosiphum euphorbiae*, resistance 7837
- Manduca sexta* 2210, 10843
- microbial pesticides, persistence 5622
- Myzus persicae* 5859
- Neoleucinodes elegantalis*, Brazil 8756-8757
- Nezara viridula* 3916
- Noctuidae 9853
- interactions 6945
- Iraq 5163
- USSR 11754
- varietal susceptibility 7835
- pest control 1583, 9851
- Asia, reports 2119
- models 5862
- New Zealand 10844
- Norway 6944
- pest resistance, genetic engineering 3138
- pesticides, residues 592
- Scrobipalpa absoluta*, Brazil 4899, 4901
- Spodoptera exigua*
- California 11977
- resistance 9847
- Tetranychus*, varietal susceptibility 6856
- Tetranychus urticae* 11756
- resistance 8760
- Thrips palmi*, Martinique 3838
- Trialeurodes vaporariorum* 1710
- Austria 3915
- economic thresholds 725
- Japan 4902
- resistance 1716
- UK 8761
- USSR 587, 723, 729, 2787, 3494, 5775, 11687
- Trichoplusia ni* 7762
- Tomatoes** \times *Lycopersicon hirsutum* f. *glabratum*, *Helicoverpa armigera*, resistance 1717
- Tomicobia acuminati**
- distribution, Poland 4037
- hosts, *Ips acuminatus* 4037
- Tomicus destruens**
- natural enemies 9938
- Pinus*, Israel 9938
- Tomicus minor**
- biology 1778
- ecology, population dynamics 1801
- monitoring 1801
- Pinus*, USSR 5074
- Pinus sylvestris*, Sweden 1778
- Tomicus piniperda**
- attractants 794, 803, 5037
- biology 1778, 9986
- behaviour 5037, 10973
- Coleoptera, interactions 4979
- ecology
- population density 9999
- population dynamics 1801, 11843
- inhibitors 5037
- monitoring 1801
- traps 801, 5037
- Pinus*
- Czechoslovakia 794
- USSR 5074
- Pinus pinaster*, France 7963
- Pinus sylvestris*
- France 9999
- Poland 4979
- Sweden 801, 803, 1778, 5037, 9986, 10973
- plant pathogens, transmission 7963
- Tomosvaryella oryzaetora**
- biology 5645
- behaviour 435
- hosts, *Nephotettix cincticeps* 435, 5645

- Tomosvaryella oryzaetora* cont.
rice, fields, Japan 435, 5645
- Tonga**, Cicadoidea 10239
- Toothpick ammi** (see *Ammi visnaga*)
- Toria** (*Brassica campestris* var. *toria*)
oils, toxicity, *Sitophilus oryzae* 7110
- Torque** (see Fenbutatin oxide)
- Torrubiella formicarum**, hosts, Formicinae 11903
- Torrubiella pseudogibulella**, hosts, Ponerinae 11903
- Torrubiella sphaerospora**, hosts, Coccidae 11903
- Tortricidae**
Abies, Poland 8880
anatomy, genitalia 1756
apricots, India 11654
attractants 6136
bilberries, Sweden 7714
biological control agents, selection 4736
biology 9333
phenology 7895
cherries, USSR 6821
conifers, Morocco 5984
control 11654
insecticides 10602
crops, Spain 1373
Czechoslovakia 6136
distribution
Italy 9333
Korea Republic 10359
Spain 1755-1756
Vietnam 3423
fruits
Europe 3777
USSR 528
Lonicera caerulea 7895
Madagascar, taxonomy 10230
maize, Benin 10602
monitoring, traps 528, 6136, 6821
morphology, reproductive organs 6284
physiology
enzymes 2196
pheromones 3289
predators 7714
rearing techniques 4421
- Tortricodes alternella**
biology 818
Quercus ilex, Spain 818
- Tortricodes tortricella** (see *Tortricodes alternella*)
- Tortrix viridana**
biology, behaviour 5969
control
insecticides 810, 1768, 1802
microbial pesticides 1803
ecology, competition 2985
monitoring, traps 5969
pheromones 5969
Quercus
Italy 5969
USSR 810, 1768, 1802-1803
Quercus robur
Netherlands 1770
UK 2985
- Torymidae**
biology, behaviour 8638
conifers, Morocco 5984
Ficus hispida, Malaysia 8638
hosts, *Kaltenbachiola strobi* 5999
- Torymoides kiesewetteri**
hosts, Tephritidae 2692
India 2692
- Torymus arundinis**, biology, behaviour 1384
- Torymus azureus**
hosts, *Kaltenbachiola strobi* 5999
USSR 5999
- Torymus beneficus**
Castanea crenata, forests, Japan 7022
hosts, *Dryocosmus kuriphilus* 7022
- Torymus sinensis**
biology 7937
phenology 9936
Castanea crenata
forests, Japan 7022
orchards, Japan 9672
chestnuts, habitats, Japan 9936
control, *Dryocosmus kuriphilus* 7022, 9672, 9936
forests, China 7937
- Torymus sinensis** cont.
hosts, *Dryocosmus kuriphilus* 7937
parasitoids 7937
- Toumeyella cubensis**
Citrus, Cuba 9712
parasitoids 9712
- Toumeyella pini**
biology 8839
natural enemies 8839
Pinus taeda, Georgia 8839
- Townsendiellomyia nidicola** (see *Alsomyia nidicola*)
- Toxaphene** (see Camphchlor)
- Toxicodendron quercifolium**, *Atta texana*, Texas 6518
- Toxins**
Aspergillus flavus, effects, Noctuidae 354
Bacillus thuringiensis 1928, 1937, 5114, 5126, 6065, 8011-8012, 8029, 10058, 11081
antibacterial properties 8019
biochemistry 8030
characteristics 899
characterization 1920, 8038
genes 7127, 8976, 10065
genetic engineering 8018, 11114
haemolysis 3091
insecticidal properties 6064
Lepidoptera, cells, effects 11947
mode of action 8009
pest resistance 7858
preparation 7129
toxicity, insects 8014
Bacillus thuringiensis subsp. *aizawai* 7123
gene expression 7125
Bacillus thuringiensis subsp. *darmstadensis* 8017
Bacillus thuringiensis subsp. *galleriae*
genes 5116
synergists 10084
Bacillus thuringiensis subsp. *kenyae*, genes 10076
Bacillus thuringiensis subsp. *kurstaki* 4105
genes 1938, 3092, 10076
toxicity, *Heliothis virescens* 2203
Bacillus thuringiensis subsp. *tenebrionis* 3902
entomogenous fungi 3105
Fusarium sporotrichioides, effects, *Choristoneura fumiferana* 8993
Gibberella zeae, toxicity, Noctuidae 873
Goniozium legneri 10435
Metarhizium anisopliae, effects, Lepidoptera 10060
microbial pesticides, pest control 6105
- Toxoptera**
Formicidae, interactions 3837
fruit trees, India 3837
taxonomy 6626
- Toxoptera aurantii**
Citrus 9719
India 3810, 10727
USSR 215
clementines, Spain 9717
cocoa, Ghana 10875
control, biological control 215
ecology, population dynamics 9717
monitoring, traps 9717
parasitoids 9719
plant pathogens, transmission 10727
predators 9905
sampling 10875
tea, India 9905
- Toxoptera citricidus**
biology, development 7754
Capsicum annum 10852
Citrus 6829
Ethiopia 1582
Citrus natsudaoida 7754
oranges
Brazil 9718
Peru 6835
plant pathogens, transmission 1582, 6829, 6835, 8005, 10852
predators 9718
- Toxoptera odinae**
distribution, Africa 6626
- Toxoptera odinae** cont.
food plants 6626
insects
honeydew 1863
interactions 1863
natural enemies 1863
Rhus javanica, Japan 1863
- Toxotrypana curvicauda**
fruits, Mexico 8636
monitoring, traps 8636
parasitoids 8636
- Toya dryope**
Australia 9409
parasitoids 9409
- Trabala vishnou**
biology 9860
Luffa, India 4840
natural enemies 872
Ricinus communis, India 9860
- Trachelipidae**, Sri Lanka 9367
- Trachymela tincticollis**
Eucalyptus, Australia 3021
Eucalyptus grandis, South Africa 3021
parasitoids 3021
- Trachypteris**
anatomy 1821
distribution 1821
taxonomy 1821
- Trachyrhachys kiowa**
control, insecticides 9627
grasslands, South Dakota 9627
- Trachytes**, forests, Italy 5967
- Trachytes pauperior**, forests, Italy 5967
- Tradescantia roseolens**, *Phthiria punctipennis*, Florida 5566
- Tragopogon dubius**, extracts, effects, *Peridroma saucia* 333
- Trail pheromones**
Daceton armigerum 8325
Odonotermes formosanus 9459
Pheidole pallidula 10417
- Tralomethrin** ([1*R*-[1*α*(*S**),3*α*]]-cyano(3-phenoxypheyl)methyl 2,2-dimethyl-3-(1,2,2,2-tetrabromoethyl)cyclopropanecarboxylate)
control
Anthonomus grandis 6982
cotton, insect pests 2924
field crops, insect pests 8482
Myzus persicae 10851
Noctuidae 6981
rice, insect pests 2644
nontarget effects 8482
toxicity, *Lasioderma serricorne* 6024
- Tranid** (see [1*S*-(1*α*,2*β*,4*α*,5*α*,6*E*)]-5-Chloro-6-[[[(methyldamino)carbonyl]oxy]imino]bicyclo[2.2.1]heptane-2-carbonitrile)
- Transpermethrin** (trans-(±)-(3-phenoxypheyl)methyl 3-(2,2-dichloroethyl)-2,2-dimethylcyclopropanecarboxylate)
metabolism, *Chrysodeixis includens* 11160
- Trapa natans**, *Macrosteles purpurata*, China 1605
- Traps**
Acyrtosiphon pisum 5808
Agrotis ipsilon 3375
Anoplophora malasiaca 5748
arthropod pests 3217
Brevipalpus phoenicis 569
Coleoptera 11029
Deroceras reticulatum 309
Euphasiopteryx 6580
forests
Coleoptera 8828, 8862
invertebrates 7018
Hymenoptera 2402
insect pests 3456
Ips typographus 11852
Otiorynchus sulcata 3770
Phyllonorycter gerasimowi 8312
Reticulitermes 9363
slugs 356
stored products, Coleoptera 5098
stored products pests 847
sugarbeet, insect pests 8313
bait traps
Anastrepha 5765, 9732

Traps cont.

bait traps cont.

Anastrepha fraterculus 4797
Anastrepha serpentina 4771
Anastrepha striata 4798
Anastrepha suspensa 2779
Anthonomus grandis 6969
Ascotis selenaria 4775
Bactrocera cucurbitae 6133
Bactrocera dorsalis 4707, 10657
Campylomma verbasci 8587
Ceratitis capitata 9695, 9698
Cosmopolites sordidus 583
 crops, insect pests 5548
Dendroctonus ponderosae 5036
Dendroctonus pseudotsugae 3004
Diploschema rotundicollis 4776
 Diptera 178, 3415
Drosophila 6779
 forest pests 5916
 Formicidae 8324
Glischrochilus quadrisignatus 5725
Grammia blakei 8532
Helicoverpa 2361
 insect pests 7163
 Isoptera 9462
Lobesia botrana 2708, 6243
Melanagromyza obtusa 5827
Mythimna separata 927, 5687
Ostrinia nubilalis 3667
Pseudauleacaspis pentagona 8627
Plinius tectus 10021
Rhagoletis completa 8577
Rhagoletis pomonella 4755, 8606, 8626
 Scarabaeidae 5772, 11495
 Tephritidae 3144, 7726, 8636, 9727
Theobroma, pollinators 3946
Tomicus piniperda 5037
Trogoderma granarium 4424

coloured sticky traps

Anastrepha ludens 9028
Anthonomus eugenii 9858
 Aphididae 10829
 crops, insect pests 5548
Delia antiqua 2882
Frankliniella occidentalis 773, 10776
 Noctuidae 9357
Psila rosae 10819
Rhagoletis completa 8577
Rhagoletis pomonella 8606
Tetanops myopaeformis 5839
Trialeurodes vaporariorum 624

emergence traps, wood, insects 3070

flight, traps, Rhopalocera 5402

funnel traps

forest litter, invertebrates 11010
 insects 168
 invertebrates 2400
Prostephanus truncatus 6715

light traps

Agrotis ipsilon 4167, 9828
Amyelois transitella 9669
 Auchenorrhyncha 5648
Autographa gamma 7680
Bracon hebetor 6040
Buzura suppressaria 5901
Cajanus cajan, insect pests 1669
Choristoneura rosaceana 8840
 Coleoptera 174
Coptotermes formosanus 2526
 Crambinae 3406
Diaphania indica 5782
Diploschema rotundicollis 4776
Galeodes 5413
Graellsia isabellae 1827
Helicoverpa armigera 10806
 Heterocera 926, 7465, 9341, 9619
 Homoptera 10623
Hydraecia immanis 5624
 Hymenoptera 6568
Idioscopus 2780
 insect pests 1209
 insects 3460, 7460, 11002
 Lepidoptera 1205, 3747, 8065, 8311, 9338, 9888, 11397
Lobesia botrana 2708
Mamestra brassicae 8274
 Meloidae 3720
Metabolus flavescens 2973

Traps cont.

light traps cont.

Mythimna separata 927
Naranga aeneascens 7637
Neocurtilla hexadactyla 4358
Nilaparvata lugens 9585
 Noctuidae 1588, 2354
Ostrinia nubilalis 7612
 Pentatomoidea 9331
Pentodon idiota 363
Peridroma saucia 9633
Polia latex 5943
 Pyralidae 2645, 11559
 rice, insect pests 1477, 9592
Scirpophaga incertulas 1472, 3686
Spodoptera exigua 10275, 10839
Trialeurodes vaporariorum 587, 723
Wiseana 7682
Xestia c-nigrum 7455

Malaise traps 7670

Araneae 7026

Autographa gamma 8808*Chironomus kiensis* 452

Coleoptera 9973

insects 2399

nets

Delphacidae 11374
 insects 7459
 marine areas, aerial insects 2394
Spissistilus festinus 9638

oviposition traps

Amyelois transitella 9669*Ceratitis capitata* 4423

pheromone traps

position 179

Agrotis sputator 923*Agrotis ipsilon* 3391, 8273*Anarsia lineatella* 4705*Anthonomus eugenii* 9858*Anthonomus grandis* 7866*Aonidiella aurantii* 4779*Apamea anceps* 384*Archips* 6822*Archips rosanus* 556*Autographa gamma* 7680*Choristoneura murinana* 10991, 11842*Citrus*, Lepidoptera 2765*Cochylis hospes* 7851*Cossus cossus* 557

cotton, arthropod pests 8770

Cryptophlebia leucotreta 3814*Cydia caryana* 7719*Cydia funebrana* 5740*Cydia pomonella* 534, 554-555, 2730, 9684, 10692*Cylas formicarius* 9838, 10834*Dendroctonus ponderosae* 7918*Diabrotica virgifera* 11545*Diaphania nitidalis* 6877*Diatraea grandiosella* 4643*Enarmonia formosana* 551*Epinotia tedella* 3024*Etiella zinckenella* 1662*Eucosma rescissoriana* 6006*Harrisina brillians* 5713*Helicoverpa* 753-754, 2361*Helicoverpa armigera* 10806*Heliothis peltigera* 2783*Heliothis virescens* 2918, 6968, 8769, 8775*Hydraecia micacea* 913

insect pests 4238, 7163

Ips typographus 791, 2995, 4249, 9982, 11840-11841, 11852-11854

Lepidoptera 921, 2944, 5969, 6136, 8774, 9879, 10694

Lobesia botrana 522, 2708, 7742*Lymantria dispar* 793*Lymantria monacha* 2951, 5071, 8824*Mamestra brassicae* 8274*Matsumuraes phaseoli* 10804*Mocis latipes* 2672*Mythimna separata* 927*Naranga aeneascens* 7637*Neodiprion sertifer* 3015

Noctuidae 660, 925, 2354, 3139, 5882, 9357, 9889, 10749

Traps cont.

pheromone traps cont.

Ooencyrtus pityocampae 5002
Orgyia postica 1204
Orgyia pseudotsugata 7917
Orthotomicus erosus 2950
Panolis flammea 3026
Pectinophora gossypiella 2920, 4941
Phoracantha semipunctata 8833
Phthorimaea operculella 693, 1688, 2863, 2869, 8741
Phyllocnistis wampella 6825
Pityogenes chalcographus 5979
Platynota 3791
Platynota idaeusalis 6815, 11641
Plutella xylostella 4833, 9767
Prays citri 9723
Prays oleae 579
Prostephanus truncatus 6715
Pseudococcus comstocki 529
Rhagoletis 4731
Rhagoletis pomonella 4755
Rhyacionia buoliana 5934
Scirpophaga incertulas 3686
 Scolytidae 801, 1796, 7065
Scrobipalopsis solanivora 691
Sitophilus oryzae 10037
Sitotroga cerealella 6038
Spodoptera exigua 922, 1082, 9843
Spodoptera frugiperda 3676
Spodoptera litura 5171, 8659, 11722
 stored products pests 3048, 4056
Synanthedon tipuliformis 8560
 Tortricidae 528, 6821, 8605
Trogoderma granarium 4424
Trypodendron 1872
Trypodendron lineatum 8860
Xestia c-nigrum 7455

pitfall traps 7670

arthropods 6554, 9361
Calosoma alternans 11720
Calosoma sycophanta 7961
 Carabidae 1525, 5600, 8270, 8315, 8361

Curculionidae 5949, 8896

Diatraea saccharalis, predators 4605

forests, arthropods 3977

Formicidae 3486

grasslands, Hemiptera 9611

invertebrates 5382

meadows, arthropods 4681

Neocurtilla hexadactyla 4358*Pardosa ramulosa* 9593

predatory arthropods 6526, 9393

Prostephanus truncatus 6715

Scarabaeidae 11495

Scarabaeoidea 8316

sound traps, *Megacephala fulgida* 2491

sticky traps

Agrilus ruficollis 3761
Amyelois transitella 4724
Amynothrips andersoni 4579
Anthonomus eugenii 9858
 Aphididae 10387
 Auchenorrhyncha 6890
Cacopsylla pyricola 4761
 Coleoptera 822
Cryptolestes dybasi 3408
Delia antiqua 2881
 Diptera 4808
Empoasca kraemeri 638
Encarsia perniciosi 4737
Euphasiopteryx depleta 3501
 Formicidae 5437
Heliothis subflexa 8554
Ips typographus 791
Lasioderma serricornis 853
Lipaphis erysimi 6497
Megalurothrips usitatus 1633
Melanaspis obscura, parasitoids 5974

Meteorus trachynotus 8840*Nephotettix cincticeps* 7630*Panorpa communis* 3793*Pardosa ramulosa* 9593*Rhagoletis* 4731*Rhagoletis pomonella* 8606, 8617, 8626

Traps cont.

- sticky traps cont.
 - Scirtothrips dorsalis* 10679
 - soyabeans, arthropods 4859
 - Trialeurodes vaporariorum* 723, 3915
 - Zulia entreriana* 4686
- suction traps
 - Aphididae 1682, 10387, 10579, 10829, 11123
 - Bracon hebetor* 6040
 - field crops, insect pests 2393
 - Ips typographus* 4250
 - Macrospini 1398
 - Rhopalosiphum padi* 10959
- trap bands
 - Lambdina fiscellaria* 7038
 - Lymantria dispar* 7961
- trap crops, *Brevicoryne brassicae* 6863
- water traps
 - Aphididae 1682
 - Megalurothrips usitatus* 1633
- yellow sticky traps
 - Anthomyiidae 7831
 - Bactrocera oleae* 11668-11669
 - Bemisia tabaci* 8773
 - Cicadellidae 6764
 - Diptera 4808
 - greenhouse crops, arthropod pests 2786
 - Liriomyza trifolii* 7003
 - Rhagoletis mendax* 8563
 - Scirtothrips dorsalis* 9705
 - Spissistilus festinus* 9638
 - Trialeurodes vaporariorum* 326, 2787
 - Trioza erytreae* 9711
- yellow traps
 - Anthonomus grandis* 9882
 - Aphididae 4676, 9717, 10387, 10579, 10829, 11123
 - Aphis* 8639
 - Astylus* 3670
 - Dasineura brassicae* 604
 - ornamental plants, insect pests 7893
 - Thripidae 9921
 - Trialeurodes vaporariorum* 729
- Trathala**
 - aubergines, fields, India 2888-2889
 - hosts, *Leucinodes orbonalis* 2888-2889
- Trathala flavoorbitalis**
 - hosts, *Antigastra catalaunalis* 8766
 - sesame, fields, India 8766
- Trechus**
 - fields, Finland 10577
 - prey, *Rhopalosiphum padi* 10577
- Trees**
 - Acari, Australasia 7909
 - arthropod pests, Czechoslovakia 837
 - arthropods, Netherlands 3145
 - Ceroplastes japonicus*, China 3968
 - Choristoneura rosaceana*, Quebec 8840
 - Coccoidea, Romania 7311
 - Coptotermes formosanus*, South Carolina 2526
 - Dendrolimus punctatus*, China 7019
 - habitats
 - Medocostes lestoni*, Zaire 4541
 - parasitoids, Brazil 5021
 - Phytoseiulus macropilis*, Cook Islands 9646
 - Hemiptera, USSR 4028
 - Hyphantria cunea*, Italy 5960
 - insect pests
 - Brazil 5021
 - galls 5021
 - plant extracts, effects 5234
 - insecticides, residues 3205
 - insects
 - America 8912
 - China 5989
 - Isoptera, damage 1779
 - Leptocoris trivittatus*, USA 7053
 - Merobruchus*, America 3249
 - Metabolus flavescens*, China 2973
 - Odontotermes fontanellus*, China 1346
 - Quadraspidiotus perniciosus* 6454
 - Reticulitermes flavipes*, German Federal Republic 1910
 - Siphoninus phillyreae*, California 8914
 - Zeugophora*, Australia 7946

- Trema orientalis*, Eriophyidae, South Africa 10011
- Tremulacin**
 - effects
 - Choristoneura conflictana* 3027
 - Papilio glaucus* 7952, 10967-10968
- Tremuloidin**, effects, *Papilio glaucus* 7952
- Trewia nudiflora*, extracts, toxicity, *Sitophilus oryzae* 3166
- Trhypochthonius tectorum*, physiology, reproduction 1111
- Triadimenol**, mixtures, nontarget effects, wheat, arthropods 2038
- Trialeurodes**
 - control 10900
 - Euphorbia pulcherrima* 10900
- Trialeurodes abutiloneus*, plant pathogens, transmission 1919
- Trialeurodes ericae*, *Erica*, Europe 9912
- Trialeurodes vaporariorum**
 - biology
 - behaviour 4838
 - dispersal, models 5369
 - Capsicum annuum*, Hungary 9859
 - checklists, Bermuda 153
 - Colombia 2148
 - control 587, 1710, 5237, 7004, 10902
 - biological control 621, 1277, 2786, 2946, 3129, 3526-3527, 3835, 3865, 3964-3965, 5775, 5862, 7002, 10750, 11687, 11780, 11786
 - insecticides 728, 910, 1599
 - integrated control 2072, 3915, 8761
 - trapping 326, 624, 723, 729, 2787
 - cucumbers 4838
 - German Democratic Republic 621
 - USSR 624
 - Cucumis*, resistance 10778
 - ecology
 - distribution 725
 - population dynamics 4902
 - Euphorbia pulcherrima*, German Federal Republic 11780
 - Euphorbiaceae, German Federal Republic 7005
 - food plants 153, 4514
 - Canada 9925
 - Gerbera*, Poland 7002
 - German Federal Republic 7004
 - greenhouse crops 5862
 - Austria 2786, 3915
 - German Democratic Republic 910, 3835
 - German Federal Republic 3964
 - Japan 4902, 5706
 - Norway 8809, 10750
 - USSR 326, 587, 1599, 2787
 - greenhouses, Norway 10902
 - growth regulators
 - effects 4507
 - toxicity 8809
 - Hibiscus*, German Federal Republic 11786
 - insecticides
 - effects 6170
 - pathogenicity 3100
 - Israel 2148
 - Italy 3129
 - monitoring, traps 2786, 7893
 - morphology, mouthparts 3252
 - ornamental plants, Denmark 2946
 - parasitoids 725, 3494, 3524, 4507, 4514, 4902, 5456, 7005
 - pathogens 5138
 - physiology, water relations 9271
 - poinsettias 7893
 - German Federal Republic 3965
 - Scandinavia 6170
 - taxonomy 2148
 - tomatoes 1710
 - economic thresholds 725
 - resistance 1716
 - UK 8761
 - USSR 723, 728-729, 3494
 - USSR 1277
 - vegetables
 - German Democratic Republic 3865
 - USSR 5775, 11687
 - watermelons, Hawaii 3866

- Trialeurodes variabilis**
 - cassava, Colombia 711, 11747
 - control, cultural control 711, 11747
 - ecology, population dynamics 11747
 - natural enemies 711
- Trialkylphosphorothiolates**, inhibitors, hormones, cholinesterase 3193
- Triaspidini**
 - biology 4468
 - Spain 4468
- Triaspis**
 - Italy 9405
 - taxonomy 9405
- Triaspis aciculatus**
 - Italy 9405
 - taxonomy 9405
- Triaspis floricola**
 - distribution, Poland 8543
 - hosts, *Apion apricans* 8543
- Triaspis obscurellus**
 - Italy 9405
 - taxonomy 9405
- Triaspis thoracicus**
 - hosts, *Bruchus dentipes* 3870
 - Italy 9405
 - taxonomy 9405
- Triazophos** (*O,O*-diethyl *O*-(1-phenyl-1*H*-1,2,4-triazol-3-yl) phosphorothioate)
 - control
 - Agrotis* 7609
 - cotton, insect pests 3933
 - Erysiphe pisi* 10792
 - Hieroglyphus banian* 3713
 - Oscinella* 7679
 - Phytonemus pallidus* 11781
 - Syllepte derogata* 755
 - Tetranychus cinnabarinus* 4922
 - effects, cotton 10856, 10858
 - mixtures, control, *Thrips tabaci* 4897
 - nontarget effects, *Apis mellifera* 7540
 - residues, cabbages 3859
 - resistance, *Liriomyza trifolii* 9055
 - toxicity
 - beneficial insects 3497
 - Trichogramma brasiliense* 11451
 - with deltamethrin, control, *Quadraspidiotus perniciosus* 11652
- Tribolium**
 - ecology, population dynamics 7091, 7972
 - maize, commodities, Togo 3054
- Tribolium anaphe**, rearing techniques 4431
- Tribolium anaphe auct.**, radiation, effects 8263
- Tribolium audax**
 - biology 6036
 - crops, commodities 6036
- Tribolium castaneum**
 - barley
 - commodities 11029
 - Minnesota 7108, 11880
 - bioassays, insecticides 8087
 - biology 1904, 4059, 6036
 - behaviour 4064, 11375
 - development 7989, 11057
 - environmental factors 5098
 - reproduction 8943
 - cashews, commodities 867
 - cereal grains 5091, 5098
 - control
 - dusts 7094
 - impaction 5086
 - insecticides 11034
 - crops, commodities 6036
 - Cuminum cyminum*, commodities, India 7969
 - ecology, population dynamics 3052, 4076, 5100, 10035
 - flours 11057
 - forecasting 10035
 - fumigants, toxicity 845, 7181, 7977, 8948
 - genetics, selection 10319
 - grasses, seeds, resistance 7672
 - groundnuts
 - commodities 6046, 7094
 - USA 11895
 - growth regulators
 - effects 3063
 - toxicity 7979

***Tribolium castaneum* cont.**

- insecticides
 - effects 3062, 8088, 11886
 - resistance 7108, 8949, 8952, 11171-11172, 11895
 - toxicity 1905, 3148, 4059, 4069, 4173, 5091-5092, 5193, 6046, 6165, 7182, 7975, 8091, 8949, 11030, 11959, 11972, 11982
- maize
 - commodities 5092, 8952, 11030, 11886
 - Georgia 3052
 - monitoring, traps 5098, 11029
 - parasitoids 7083
 - pathogens 883, 4059, 7969
 - pheromones 11375
 - physiology
 - chemical composition 883
 - cuticle 3297, 4063
 - enzymes 6295, 7977
 - plant extracts
 - effects 862, 10631
 - toxicity 3147-3148, 10027
 - predators 4068, 7986
 - radiation, effects 1143, 4064
 - rice, commodities 7106
 - β -sitosterol, effects 7099
 - sorghum, commodities 8943
 - stored products 7989
 - China 10019
 - German Federal Republic 3049
- wheat
 - commodities 3062, 4076, 7975, 10035, 11034
 - Pakistan 11027
 - resistance 7099
 - varietal susceptibility 11883
- wheat flour 862

Tribolium confusum

- antibiotics, effects 5380
- antifeedants 4219
- barley, commodities 11039
- biology 6036
 - behaviour 11023
 - environmental factors 2326, 5375
- carbon dioxide, effects 3064
- control
 - fumigants 4073
 - physical control 11021
- crops, commodities 6036
- ecology, population dynamics 4076
- fertilizers, toxicity 9066
- insecticides, toxicity 4075, 5080
- parasitoids 10025
- physiology
 - cuticle 3297, 4063
 - enzymes 6295
- plant extracts, toxicity 1415
- plant oils, toxicity 6678
- predators 227, 860-861, 4060
- radiation, effects 1143, 3064
- stored products
 - Bangladesh 10025
 - German Federal Republic 3049
- symbionts 5380
- wheat
 - commodities 4060, 4073, 4076
 - damage 7109

Tribolium destructor*, physiology, cuticle 4063**Tribolium madens***

- biology 6036
- crops, commodities 6036

Tribulus alatus*, habitats, *Schistocerca gregaria*, India 3480**Tribulus cistoides***

- America 8429
- biological control 8429

Tribulus terrestris*, extracts, toxicity, *Mol-lusca* 6612**S,S,S-Tributyl phosphorothioate*, synergism 8089*****S,S,S-Tributyl phosphorotrithioate*, synergism 5191, 8082*****Tributyltin*, toxicity, *Acartia tonsa* 8130*****Trichacis crossi***

- hosts, *Cecidomyiidae* 1337
- Sphaeralcea angustifolia*, habitats, Texas 1337
- taxonomy, new species 1337

Trichilia havanensis*, *Tenuipalpus rhyssus*, Costa Rica 4594**Trichilogaster acaciaelongifoliae* control, *Acacia longifolia* 6658*****Trichiosoma***

- forest trees 6265
- taxonomy 6265

Trichiura ilicis

- biology 1877
- Quercus ilex*, Spain 1877

***Trichlorfon* (dimethyl (2,2,2-trichloro-1-hydroxyethyl)phosphonate) control**

- Acari 1254
- Aphis fabae* 681
- Bactrocera cucurbitae* 5760
- Bactrocera tryoni* 7757
- Bruchus pisorum* 3877
- Curculio nucum* 3773
- Cydia molesta* 5729
- Dinoderus minutus* 9514
- Empoasca kraemeri* 9784
- Euprosterina elaesa* 1543
- Hydrellia griseola* 7645
- Lepidoptera 1972, 8681
- Leptopharsa gibbicarina* 1543
- Liriomyza* 623
- Malacosoma neustria* 5165
- Noctuidae 3671
- Peridea anceps* 3972
- Psychidae 7713
- Scarabaeidae 9626
- Stenomoma impressella* 1543
- Udea ferrugalis* 7803
- wheat, insect pests 2618, 5606

effects

- Agrotis segetum* 11179
- Anastatus japonicus* 9414
- apples 7730
- parasitoids 217
- tomatoes 1715
- nontarget effects
 - Carabidae 696
 - predatory arthropods 681
 - predatory insects 2618
- residues, forests 8892
- resistance, *Lygus hesperus* 11166
- synergism 11688
- toxicity
 - Anastatus japonicus* 9423
 - Auricularia auricula*, insect pests 11688
 - beneficial insects 3497
 - Cryptolaemus montrouzieri* 7757
 - fishes 6174
 - Helix vittata* 6614
 - Mythimna separata* 5668
 - Spodoptera frugiperda* 404

- with oxydemeton-methyl, nontarget effects, algae 11401

Trichlormetaphos-3

- control, *Diaspididae* 2696
- toxicity, *Cycloneda sanguinea* 9453, 9721, 10462

Trichloroethylene*, toxicity, stored products pests 845**Trichloronat* (*O*-ethyl *O*-(2,4,5-trichlorophenyl) ethylphosphonothioate) control, *Delia radicum* 603****degradation, soil 603****2,4,5-Trichlorophenol**

- residues
 - determination 9349
 - water 9349

Trichlorophenol* copper(2+) salt, mixtures, control, rape, insect pests 6865**Trichlorphon* (see *Trichlorfon*)*****Trichoderma*, *Pygmephorus*, interactions 6860*****Trichoderma aureoviride*, *Pygmephorus*, interactions 6860*****Trichoderma harzianum***

- Collembola, interactions 9020
- insecticides, effects 10661
- Pygmephorus*, interactions 6860

Trichoderma viride*, insecticides, effects 10661**Trichogramma* apples, orchards, USSR 545*****Trichogramma* cont.**

- biology 2513, 5932
- behaviour 403, 8337, 11447
- Brassica*, fields, China 4819
- cabbages, fields, USSR 608, 2804
- coffee, plantations, Costa Rica 4953
- control
 - Agrotis segetum* 2929
 - cabbages, Lepidoptera 2804
 - Cydia nigricana* 649
 - Cydia pomonella* 545
 - insect pests 908
 - Lepidoptera 608, 2587, 4819
 - Loxostege sticticalis* 322, 2552
 - Ostrinia nubilalis* 5630
 - Spodoptera frugiperda* 403
- Crotalaria*, habitats, Puerto Rico 1527
- distribution, USSR 1288
- fields, USSR 2587
- forests, Italy 5932
- genetics 210
- hosts
 - Cydia molesta* 4767
 - Diatraea saccharalis* 4605
 - Etiella zinckenella* 1527
 - Lepidoptera 4736, 8337, 11447
 - Noctuidae 3726
 - Rothschildia orizaba* 4953
 - Sitotroga cerealella* 170, 2513, 2929
 - Spodoptera frugiperda* 428
 - Thaumetopoea processionea* 5932
- insecticides, effects 8762
- maize
 - fields
 - Mexico 403
 - Romania 5630
 - peaches, orchards, Chile 4767
 - peas, fields, USSR 649
 - physiology
 - enzymes 211
 - feeding 214
 - quality controls 216, 272
 - rearing techniques 170, 210-211, 4485, 5501, 11409
 - release techniques 171-172, 216, 904-905, 6679
 - rice, fields, Cuba 428
 - sorghum, fields, Arkansas 3726
 - storage 11409
 - sugarcane, plantations, Brazil 4605
 - taxonomy 211
 - tobacco, fields, USSR 2929
 - USSR 171-172, 216, 273, 322, 904-905, 908, 2552
- Trichogramma aldanense*
 - hosts, *Nematus* 4734
 - orchards, USSR 4734
 - taxonomy, new species 4734
- Trichogramma atopovirilia*
 - hosts, *Diatraea grandiosella* 4637
- maize, fields, Mexico 4637
- Trichogramma aurosum*
 - hosts, fruits, insects 2723
 - orchards, USSR 2723
 - taxonomy, keys 2723
- Trichogramma australicum*
 - biology 5478-5479
 - food plants 5478
 - hosts, Lepidoptera 5479
- Trichogramma brasiliense*
 - control, Lepidoptera 6970
 - cotton, fields, India 6970
 - hosts
 - Corcyra cephalonica* 5453
 - Helicoverpa armigera* 6529
 - Lepidoptera 11451
 - insecticides, toxicity 5453, 6529, 11451
- Trichogramma brevicapillum*
 - habitats, California 5462
 - hosts, Lepidoptera 5462, 8762, 9851
 - tomatoes, fields, California 8762, 9851
- Trichogramma browni*
 - hosts, Lepidoptera 5460
 - morphology 5460
 - taxonomy 5460
- Trichogramma buesi*
 - biology 5790
 - fields, Egypt 5790
 - food 5790

- Trichogramma buesi* cont.
hosts, Lepidoptera 5790
- Trichogramma cacaeciae*
biology, diapause 8338
hosts, fruits, insects 2723
orchards, USSR 2723
taxonomy, keys 2723
- Trichogramma chilonis*
antibiotics, effects 10477
biology
behaviour 9415
development 7769
environmental factors 7771
phenology 1743
reproduction 10477
China 5782
Citrus, orchards, India 2761
control, sugarcane, insect pests 2457
cotton, fields, India 1743
ecology, population dynamics 7772
hosts
Achaea janata 8765
Antheraea pernyi 2457, 7508
Diaphania indica 5782
Earias 1743
Lepidoptera 7769-7770, 7772-7773
Papilio 2761
Plutella xylostella 6880, 7771
Japan 6880
rearing techniques 2457, 7508, 7770, 7773, 9415
Ricinus communis, fields, India 8765
sugarcane, fields, China 2457
- Trichogramma chilotraeae*
biology, behaviour 9415
rearing techniques 9415
- Trichogramma confusum* (see *T. chilonis*)
- Trichogramma cordubensis*
biology, behaviour 9415
rearing techniques 9415
- Trichogramma deion*
antibiotics, effects 10477
biology, reproduction 10477
habitats, California 5462
hosts, Lepidoptera 5460, 5462, 8762, 9851
morphology 5460
taxonomy 5460
tomatoes, fields, California 8762, 9851
- Trichogramma demoraesi*
hosts, *Ephestia kuehniella* 245
insecticides, toxicity 245
- Trichogramma dendrolimi*
apples
orchards
China 2731, 4740
German Federal Republic 4736
biology 2731
behaviour 4740, 9415
control
Adoxophyes orana 2731, 4740
cotton, Lepidoptera 3126
Lepidoptera 4805
Ostrinia nubilalis 5630
Tortricidae 535
cotton, fields, China 3126
hosts
Antheraea pernyi 2731
Euproctis chrysorrhoea 5970
Lepidoptera 4736
maize, fields, Romania 5630
orchards, China 535
rearing techniques 9415
trees, Italy 5970
vegetables, habitats, China 4805
- Trichogramma embryophagum*
apples, orchards, German Federal Republic 4736
biology
behaviour 8339, 9415
diapause 8338
habitats, Italy 556
hosts
fruits, insects 2723
Lepidoptera 556, 4736
Sitotroga cerealella 8339
orchards, USSR 2723
rearing techniques 9415
taxonomy, keys 2723
- Trichogramma evanescens*
apples, orchards, USSR 544
- Trichogramma evanescens* cont.
attractants 6234
biology 4481
behaviour 400, 6234
diapause 8338
Brassica, fields, China 4819
control
Cydia pomonella 544
Lepidoptera 4819
Noctuidae 11754
Ostrinia nubilalis 5630
forests, Hungary 8851
habitats, USSR 1288
hosts
Dendrolimus pini 8851
fruits, insects 2723
Lepidoptera 400, 4481, 11754
Mamestra brassicae 6234
maize, fields, Romania 5630
orchards, USSR 2723
rearing techniques 11754
taxonomy, keys 2723
tomatoes, fields, USSR 11754
- Trichogramma exiguum*
biology 11461
behaviour 8337
hosts
Erinnyis ello 217
insects 1312
Lepidoptera 8337, 11461
Noctuidae 6749, 9853
insecticides, effects 217
North Carolina 1312
sorghum, fields, USA 6749
- Trichogramma fuentesi*
hosts, Lepidoptera 5460
morphology 5460
taxonomy 5460
- Trichogramma funestum*
hosts, Lepidoptera 5462
taxonomy, new species 5462
- Trichogramma japonicum*
biology, behaviour 9415
China 1167
hosts
Cnaphalocrocis medinalis 1167, 9421
Scirpophaga incertulas 2655
insecticides
effects 2655
toxicity 9421
pesticides, effects 1167
rearing techniques 9415
rice, fields 2655
- Trichogramma maidis*
attractants 5467
biology, behaviour 418, 1275, 2488, 4489, 5467, 6549, 9415
Brassica, fields, China 4819
control
Lepidoptera 4819
Ostrinia nubilalis 11542
genetics, population genetics 7397
hosts
Ephestia kuehniella 4489, 7397
Ostrinia nubilalis 2488, 5467
Pyralidae 418, 1275, 6549
maize, fields, Italy 11542
rearing techniques 6549, 9415
- Trichogramma maltbyi*
biology, behaviour 8337
hosts
insects 1312
Lepidoptera 8337
North Carolina 1312
- Trichogramma meyeri*, *Trichogramma aldanense*, differentiation 4734
- Trichogramma minutum*
biology, behaviour 249, 8337
hosts
insects 1312
Lepidoptera 8337
Manduca sexta 249
Mythimna unipuncta 6536
North Carolina 1312
Quebec 6536
- Trichogramma nagarkattii*
biology, behaviour 9415
rearing techniques 9415
- Trichogramma nubilale*
attractants 7525
- Trichogramma nubilale* cont.
biology 1314
behaviour 8342, 9415
hosts
insects 1312
Ostrinia nubilalis 1314, 7525, 8342
North Carolina 1312
Nosema pyrausta, interactions 1314
rearing techniques 9415
- Trichogramma ostriniae*
biology
behaviour 9415
development 7769
environmental factors 7771
ecology, population dynamics 7772
hosts
Lepidoptera 7769-7770, 7772-7773
Plutella xylostella 7771
rearing techniques 7770, 7773, 9415
- Trichogramma parkeri*
hosts, insects 1312
North Carolina 1312
- Trichogramma pelovi*, *Trichogramma aldanense*, differentiation 4734
- Trichogramma perkinsi*
biology 5478-5479
food plants 5478
hosts, Lepidoptera 5479
- Trichogramma pintoi*
biology, diapause 8338
control, cotton, Lepidoptera 3126
cotton, fields, China 3126
habitats, USSR 1288
hosts, Lepidoptera 3126
physiology, enzymes 211
rearing techniques 3126
taxonomy 211
- Trichogramma platneri*
antibiotics, effects 10477
apples, orchards, California 9680
attractants 4774
biology 9680
behaviour 4774
reproduction 10477
control, Lepidoptera 10719
food 9680
habitats, California 5462
hosts, Lepidoptera 4774, 5460, 5462, 9680
Israel 10719
morphology 5460
taxonomy 5460
weeds, food preferences 10719
- Trichogramma pretiosum*
antibiotics, effects 10477
attractants 6234
biology
behaviour 6234, 8337, 9415
reproduction 10477
control, Lepidoptera 11053
cotton, fields, Brazil 9868
grapes, habitats, New York 11623
hosts
Corcyra cephalonica 5453
Datana integerrima 2717
Diatraea grandiosella 4637
Helicoverpa zea 6234
insect pests 8335
insects 1312
Lepidoptera 5460, 8337, 8762, 9851
Noctuidae 6749, 9853, 9868
Polychrosis viteana 11623
insecticides, toxicity 5453
maize, fields, Mexico 4637
morphology 5460
North Carolina 1312
rearing techniques 9415
sorghum, fields, USA 6749
taxonomy 5460
tomatoes, fields, California 8762, 9851
walnuts, orchards, Mexico 2717
- Trichogramma principium*, biology, diapause 8338
- Trichogramma semblidis*
biology
behaviour 8339
diapause 8338
hosts, *Sitotroga cerealella* 8339
- Trichogramma sibiricum*
hosts, fruits, insects 2723
orchards, USSR 2723

- Trichogramma sibiricum* cont.**
taxonomy, keys 2723
- Trichogramma thalense***
habitats, California 5462
hosts, Lepidoptera 5462, 8762, 9851
tomatoes, fields, California 8762, 9851
- Trichogramma trjapitzini***
biology, behaviour 9415
rearing techniques 9415
- Trichogrammatidae**
biology 11609
distribution, Brazil 8335
hosts
Helicoverpa 5776
Ostrinia nubilalis 11542, 11609
maize, fields, Italy 11542, 11609
pesticides, effects 3765
tomatoes, fields, Queensland 5776
vineyards, Austria 3765
- Trichogrammatoidea**
biology, phenology 1743
cotton, fields, India 1743
hosts
Earias 1743
Eutorna phaulocosma 4715
New Zealand 4715
- Trichogrammatoidea bactrae**
biology 6971
hosts, *Pectinophora gossypiella* 6971
morphology 6971
- Trichogrammatoidea cryptophlebiae**
Citrus, orchards, South Africa 5752
control, *Cryptophlebia leucotreta* 5752
hosts, *Cryptophlebia leucotreta* 8647
oranges, orchards, South Africa 8647
- Trichogrammatoidea lutea**
Africa 3755
biology 4481
hosts
Cryptophlebia leucotreta 3755
Lepidoptera 4481
- Tricholaba**
legumes 4260
taxonomy 4260
- Tricholyga bombycis* (see *Exorista sorbillans*)**
- Trichomachimus***, ecology 4271
- Trichomachimus paludicola***, prey, insects 4271
- Trichomalopsis apanteloctena***
China 6551
hosts, *Oulema oryzae* 6551
- Trichomalopsis oryzae***
China 6551
hosts, *Oulema oryzae* 6551
- Trichomalopsis shirakii***
China 6551
hosts, *Oulema oryzae* 6551
- Trichomasthus***
Europe 6591
hosts, Coccoidea 6591
taxonomy 6591
USSR 6591
- Trichophaga tapetzella***
biology 1896
control 1896
stored products 1896
- Trichoplasta**
hosts, Diptera 11466
USSR 11466
- Trichoplastini**
taxonomy, new tribe 11466
USSR 11466
- Trichoplusia ni**
Bacillus thuringiensis, toxicity 11081
biology
behaviour 7762, 7782
development 2820, 9049
food consumption 4829
phenology 4834, 6858, 9635
broccoli, Virginia 1620, 4830
cabbages 4829
India 3855
New York 7782
Oklahoma 9766
USA 4834
cauliflowers, Ontario 2806, 4835
cell lines, enzymes, effects 882
Colorado 10438
control, insecticides 2806, 3855, 3873, 9766
- Trichoplusia ni* cont.**
diets 9501
enzymes, production 11108
food plants 7762, 8488, 8709
California 9635
genetics
gene mapping 117
mutations 8709
growth regulators, effects 7232
immune response 5308
insecticides
effects 9049, 9054
pathogenicity 4130-4131, 9881
toxicity 1938, 8083, 9061, 9063
parasitoids 250, 1319, 3520, 5460, 5462, 7502, 8488, 9680, 9851
pathogens 117, 1957, 3853, 4094, 4150, 5109, 5133-5134, 5308, 6060, 6076, 6078, 8043, 8977, 11094, 11108, 11937
Phaseolus lunatus 2820
Phaseolus vulgaris, Arkansas 3873
pheromones 7348, 8709, 10276
phototoxins, effects 9199
physiology
chemical composition 2282-2283
endocrine system 3324, 7373, 11338
enzymes 43, 53-54, 2190, 2196, 9199
metabolism 1072
parasitism 1319
pheromones 3289
plant extracts, effects 9501
pollution, effects 2820
predators 5550, 7532, 8544, 10438
sampling 4835
sunflowers, Mississippi 8544
tomatoes
California 9851
varietal susceptibility 7835
USA 7348
vegetables, Florida 6858
- Trichoplusia orichalcea* (see *Thysanoplusia orichalcea*)**
- Trichopoda pennipes***, hosts, *Nezara viridula* 6386
- Trichopria***
distribution, Costa Rica 4479
hosts, Tephritidae 4479
- Trichopria angustipennis***
Florida 4581
hosts, *Lemnaphila scotlandae* 4581
- Trichopria paludis***
Florida 4581
hosts, *Lemnaphila scotlandae* 4581
- Trichoptera**
Australia, catalogues 12031
distribution, Poland 6465
ecology 12031
insecticides, effects 11190
taxonomy 4259, 12031
- Trichosanthes dioica*, *Saissetia coffeae*** 10782
- Trichosiocalus horridus***
biology, behaviour 9496
Carduus, Virginia 9496
herbicides, effects 9496
- Trichospilus pupivora***
coconuts, plantations, India 9649
hosts, *Opisina arenosella* 9649, 10458
insecticides, toxicity 10458
- Trichostictia brunneri***
distribution, Chile 1340
taxonomy 1340
- Trichothecenes**
mixtures, toxicity, Noctuidae 11158
synergism 11158
- Trichotichnus laevicollis***
Belgium 4532
biology 4532
morphology 4532
- Trichotichnus nitens***
Belgium 4532
biology 4532
morphology 4532
- Triclistus yponomeutae***
biology, development 3546
hosts, *Yponomeuta vigintipunctatus* 3546
- Tridactylus japonicus***, morphology, scent glands 9175
- Tridax procumbens***, extracts, repellents, insects 5578
- (4E,7Z)-4,7-Tridecadienyl acetate**
mixtures, pheromones, *Phthorimaea operculella* 7349
pheromones, *Phthorimaea operculella* 2870
- Tridecane**, secretions, mites 8945
- n-Tridecane**, mixtures, pheromones, *Erthesina fullo* 7069
- 2-Tridecanone**
effects
Campoletis sonorensis 727
Leptinotarsa decemlineata 724
toxicity, *Campoletis sonorensis* 2883
- (4E,7Z,10Z)-4,7,10-Tridecatrienyl acetate**
mixtures, pheromones, *Phthorimaea operculella* 7349
pheromones, *Phthorimaea operculella* 2870
- (Z)-5-Tridecene**, mixtures, pheromones, *Tyrophagus neiswanderi* 9779
- (E)-4-Tridecen-1-yl acetate**, pheromones, *Keiferia lycopersicella* 726
- (Z)-4-Tridecen-1-yl acetate**, pheromones, *Keiferia lycopersicella* 726
- Tricees tricarينات***
biology, development 3546
hosts, *Yponomeuta vigintipunctatus* 3546
- Triflumuron** (2-chloro-N-[[[4-(trifluoromethoxy)phenyl]amino]carbonyl]benzamide)
control
Batrachedra amydraula 1544
Brevipalpus phoenicis 6838
Cydia pomonella 8583
Euproctis lunata 796
Lepidoptera 10857
Leptinotarsa decemlineata 3901
Lymantria dispar 11831
Phyllocnistis citrella 5753
Pristiphora abietina 8911
Spodoptera exigua 594
deposition, forest trees 10907
effects
Spodoptera littoralis 3207-3208
Spodoptera litura 12010
formulations, sprays 10907
mixtures
control
Lepidoptera 10857
Leptinotarsa decemlineata 2873
nontarget effects, soil arthropods 1731
residues, *Pinus* 10987
reviews 3206
synergism 3155
toxicity
Choristoneura occidentalis 9103
Dysdercus koenigii 7233
Euxoa messoria 5896
Lepidoptera 10987
Lissorhoptrus oryzophilus 5652
Spodoptera littoralis 11209
with sulprofos, resistance, *Spodoptera littoralis* 2905
- 1,1,1-Trifluoro-3-(octylthio)-2-propanone**, synergism 3155
- Trifolium**
Aphididae, damage 3736
Tricholaba 4260
- Trifolium affine*, *Costelytra zealandica***, resistance 6773
- Trifolium alexandrinum***
Aeliumorpha coimbatorensis, India 3244
Helicoverpa armigera, varietal susceptibility 9920
sowing, effects, *Chilo suppressalis* 3694
Spilosoma obliqua, India 1647
- Trifolium ambiguum*, *Costelytra zealandica***, resistance 6773
- Trifolium arvense*, *Costelytra zealandica***, resistance 6773
- Trifolium incarnatum***
arthropods, North Carolina 7614
fields, *Misumena vatia*, Mississippi 8544
Helicoverpa zea 7702
- Trifolium medium*, *Zygaena***, Denmark 1536

- Trifolium pratense**
Acyrtosiphon pisum, Iowa 2677
Apion, damage 481
Apion apricans
 Poland 8543
 resistance 7700
 fields, Hymenoptera, Poland 8543
 insect pests, damage 6775
Therioaphis trifolii, Chile 5689
Zygaena filipendulae 1536
- Trifolium repens**
Aceratagallia sanguinolenta, Minnesota 10885
Anticarsia gemmatilis 4591
Apion fulvipes, Poland 4704, 8545
Apion virens, varietal susceptibility 4703
Arachya menetriesii 7684
 arthropod pests 7257
 books 7257
Costelytra zealandica, New Zealand 6756
 Curculionidae, German Federal Republic 468
Deroceras reticulatum, UK 4702
 extracts, effects, *Helicoverpa assulta* 8786
 fields, Hymenoptera, Japan 8692
 Gastropoda, damage 3745
Halotydeus destructor, varietal susceptibility 6774
 insect pests
 UK 1511, 9135
 varietal susceptibility 3745, 7701
 insecticides, effects 1441
 invertebrates
 biology 2689
 UK 5692
 Macrosiphini, New Zealand 1398
 pest control 2689
Riptortus clavatus, Japan 8692
Therioaphis trifolii, Chile 5689
- Trifolium resupinatum**, *Spilosoma obliqua*, India 1647
- Trifolium semipilosum**, *Costelytra zealandica*, resistance 6773
- Trifolium uniflorum**, *Costelytra zealandica*, resistance 6773
- Trigard** (see Cyromazine)
- Trigona**
 cocoa, plantations, Costa Rica 3946
 insects as food, Australia 1356
 monitoring, traps 3946
 morphology, wings 7316
 plant oils, attractants 3946
- Trigona spinipes**
 Brazil 9780
Cucurbita pepo, pollination 9780
- Trigonalis**, hosts, *Antheraea mylitta* 10958
- Trigonella foenum-graecum** (see Fenugreek)
- Trigonogaster** (see *Sphegigaster*)
- Trigonotylus coelestialium**
 monitoring 3707
 rice, Japan 3707
- Trigonotylus ruficornis**
 control, insecticides 2618
 ecology, population dynamics 9611
 grasslands, UK 9611
 wheat, USSR 2618
- (3 β ,14 α)-3,14,25-Trihydroxy-5-cholest-7-en-6-one, synthesis 7343
- Trilocha varians**
 biology 10897
Ficus elastica, India 10897
 morphology 10897
 parasitoids 10897
- Trilophida annulata**
 ecology, population dynamics 3469
 Pakistan 3469
 parasitoids 3469
- Trimedlure** (1,1-dimethylethyl 4(or 5)-chloro-2-methylcyclohexanecarboxylate)
 attractants
Ceratitis capitata 2213, 4428, 9698
 Tephritidae 7726, 9727
 formulations 4428
 isomers, attractants, *Ceratitis capitata* 11122
- Trimerotropis pallidipennis**
 Argentina 1141
 genetics, population genetics 1141
- Trimethacarb** (2,3,5-trimethylphenyl methylcarbamate with 3,4,5-trimethylphenyl methylcarbamate)
 degradation, soil 9099
 toxicity, *Diabrotica undecimpunctata* 9099
- 1,2,4-Trimethoxybenzene**
 mixtures
 attractants
Acalymma vittatum 7788
Diabrotica virgifera 10595
- (2E,4E,6E,8E)-3,5,7-Trimethyl-2,4,6,8-decatetraene, pheromones, *Carpophilus hemipterus* 8233
- 6,10,13-Trimethyl-1-tetradecanol, pheromones, *Stiretrus anchorago* 248
- (2E,4E,6E,8E)-3,5,7-Trimethyl-2,4,6,8-undecatetraene, pheromones, *Carpophilus hemipterus* 8233
- Trinervitermes geminatus**
 ecology, population dynamics 2522
 grasslands, Ghana 2522
- Trinervitermes oeconomus**
 ecology, population dynamics 2522
 grasslands, Ghana 2522
- Trinidad and Tobago**
Aeneolamia varia, pathogens 6694
Annona muricata, insect pests 1596
 cassava, arthropod pests 1701
 Chrysomelidae 11716
 Eriophyidae 11827
Sogatodes 433
- Triodia sylvina**
 control, integrated control 3640
 hops, Romania 3640
- Triol**, effects, *Hieroglyphus nigrorepletus* 3210
- Trionymus leucopogi**, taxonomy, synonyms, of *Spilococcus mamillariae* 11788
- Triophyteus myacanthus**
Acacia karroo, South Africa 1191
 taxonomy, new species 1191
- 1,5,7-Trioxaspiro[5.5]undecane, attractants, *Bactrocera oleae* 577
- Trioxys**
 hosts, Aphididae 2137
 morphology 2137
 taxonomy 2137
- Trioxys angelicae**
 biology 11448
 food 11448
 hosts, *Aphis fabae* 11448
Phaseolus vulgaris, fields, Italy 11448
- Trioxys centaurae**
 German Federal Republic 1392
 hosts, *Uroleucon* 1392
 parasitoids 1392
- Trioxys communis** (see *Binodoxys communis*)
- Trioxys complanatus**
 hosts, *Therioaphis trifolii* 4701
 lucerne, fields, Sudan 4701
- Trioxys curvicaudus**
 forests, Czechoslovakia 4011
 hosts, Aphididae 4011
- Trioxys indicus**
 apples, orchards, India 1561
 attractants 5468
 biology
 behaviour 5468
 environmental factors 3861
 fields, India 9740
 hosts
 Aphididae 3573, 9740
Aphis craccivora 2484, 5448, 5468
Aphis gossypii 3861
Aphis pomi 1561
 India 3573
 parasitoids 2484, 5448, 9740
- Trioxys joshimathensis**
 hosts, *Sitobion miscanthi* 3648
 taxonomy, new species 3648
- Trioxys mackaueri**
 bamboos, habitats, India 3648
 hosts, *Melanaphis meghalayensis* 3648
 taxonomy, new species 3648
- Trioxys pallidus**
 California 6801
 control
Chromaphis juglandicola 6801
Myzocallis coryli 3772
 Europe 3772
 forests, Czechoslovakia 4011
 hazelnuts, orchards, Oregon 3772
 hosts, Aphididae 4011
 insecticides
 effects 11634
 resistance 6801
 rearing techniques 3772
 walnuts, habitats, California 11634
- Trioxys takecallis**
 bamboos, habitats, India 3648
 hosts, *Takecallis himalayensis* 3648
 taxonomy, new species 3648
- Trioxys tenuicaudus**
 forests, Czechoslovakia 4011
 hosts, Aphididae 4011
- Triozia**
 Brazil 1880
Myrcia itambensis, galls 1880
 parasitoids 1880
- Triozia apicalis**
 biochemistry, amino acids 9825
 carrots 9825
- Triozia erytraea**
 biology, behaviour 9711
- Citrus**
 Reunion 7745
 South Africa 9711
 monitoring, traps 9711
 plant pathogens, transmission 7745
 rearing techniques 2769
- Triozidae**
 ecology 10240
 morphology 10240
 Panama 10240
 parasitoids 3515
 taxonomy 10240
- Triphenyl phosphate**, synergism 5179, 10106
- Triphenyltin acetate**
 control, *Pomacea lineata* 453
 effects, *Leptocoris varicornis* 2647
- Triplaris americana**, Formicidae, Peru 8859
- Tripterygium hypoglaucum**, extracts, control, insect pests 352
- Tripterygium wilfordii**, extracts, control, insect pests 352
- Trirhabda bacharidis**
Baccharis neglecta, Texas 3623
 biology 3623
- Trirhabda canadensis**
 biology, behaviour 11513
Solidago, Minnesota 11513
- Trissolcus**
 biology, life tables 1289
 hosts
 Hemiptera 1289, 5004
 Pentatomidae 341
 Iran 341
Prosopis cineraria, forests, India 5004
- Trissolcus basalis**
 cereals, fields, Iran 3649
 hosts
Eurygaster integriceps 3649
 Pentatomidae 3744, 6896
 insecticides, effects 6896
 lucerne, fields, South Australia 3744
 soybeans, fields, Louisiana 6896
- Trissolcus euschisti**
 biology, reproduction 5469
 hosts
 Pentatomidae 5469
Podisus maculiventris 2452
 pheromones 2452
- Trissolcus grandis**
 cereals, fields, Iran 3649
 hosts, *Eurygaster integriceps* 3649
- Trissolcus lucellus**
Cleome viscosa, habitats, India 5004
 hosts, Hemiptera 5004
- Trissolcus manolus**
Cleome viscosa, habitats, India 5004
 hosts, Hemiptera 5004
- Trissolcus rufiventris**
 cereals, fields, Iran 3649

- Trissolcus rufiventris** *cont.*
 hosts, *Eurygaster integriceps* 3649
- Trissolcus semistriatus**
 cereals, fields, Iran 3649
 hosts, *Eurygaster integriceps* 3649
- Trissolcus vassiliewi**
 cereals, fields, Iran 3649
 hosts, *Eurygaster integriceps* 3649
- Triticale** (*Triticum* × *Secale*)
 Aphididae
 Spain 8454
 varietal susceptibility 4617
Cephus, Morocco 6701
 Cicadellidae, Argentina 6764
 commodities
 diets, *Helicoverpa armigera* 9360
Sitophilus oryzae, varietal susceptibility 3060
Diuraphis noxia, resistance 10557
Mayetiola destructor, varietal susceptibility 9531
Metopolophium dirhodum, damage 372
 products, diets, *Helicoverpa armigera* 9360
 Thysanoptera, Poland 11533
- Triticale** × **rye**, *Oulema melanopus*, resistance 10555
- Triticale** × **wheat**, *Oulema melanopus*, resistance 10555
- Triticum**, *Sitobion avenae*, resistance 1437
- Triticum aestivum** (see *Wheat*)
- Triticum araraticum**, insect pests, resistance 7595
- Triticum boeoticum**
 Aphididae, resistance 11531
 insect pests, resistance 7595
Sitobion avenae, resistance 2620
- Triticum cylindricum**, *Diuraphis noxia* 3658, 4601
- Triticum dicoccoides**, insect pests, resistance 7595
- Triticum durum** (see *Wheat*)
- Triticum kiharae**, *Sitobion avenae*, resistance 2620
- Triticum miguschovae**, *Sitobion avenae*, resistance 2620
- Triticum monococcum**, *Sitobion avenae*, resistance 2620
- Triticum** × **Secale** (see *Triticale*)
- Triticum urartu**
 insect pests, resistance 7595
Sitobion avenae, resistance 2620
- (Z)-11-Tritriacontene**, pheromones, *Drosophila melanogaster* 70
- (Z)-13-Tritriacontene**, pheromones, *Drosophila melanogaster* 70
- Triumfetta rhomboidea**, *Amblyseius msabahaensis*, Kenya 1833
- Trixis californica**, insects, California 6655
- Trogoderma**, pheromones 72
- Trogoderma granarium**
 antifeedants 4219
 attractants 8935
 biology
 development 10024
 environmental factors 135, 2326
 cashews, commodities 867
 control, insecticides 11034
 distribution, Africa 8930
 fumigants, toxicity 4055
 growth regulators, effects 11174
 insecticides, toxicity 4069
 monitoring, traps 847, 4424
 pearl millet, commodities, resistance 10024
 pheromones 6302
 physiology, chemical composition 6042
 plants, attractants 4424
 radiation, effects 2296
 rice, commodities 855
 wheat
 commodities 11034
 damage 7109
 Pakistan 11027
 resistance 6042
- Trogoderma inclusum**
 ecology, population dynamics 3052
 maize, commodities, Georgia 3052
 pheromones 6302
- Trogoderma variabile**
 pheromones 6302
 stored products, China 10019
- (Z)-Trogoderma**, mixtures, attractants, *Trogoderma granarium* 8935
- Trogus mactator**
 biology, diapause 7522
 hosts, *Papilio xuthus* 7522
- Trollius europaeus**, *Chiastocheta*, pollination 6665
- Trombiculidae**, physiology, digestion 2188
- Trombiidae**
 hosts
Enoplognatha ovata 8359
Nilaparvata lugens 4661
 Maine 8359
- Tropaeolum majus**, *Aphis fabae*, German Democratic Republic 3237
- Tropical fruits**, pest resistance 2110
- Tropicomyia theae**
 parasitoids 3953
 tea, India 3953
- Tropiconabis capsiformis** (see *Nabis capsiformis*)
- Tropics**
 crops, reports 5246
 field crops, reports 8154
Heteropsylla cubana, parasitoids 7045
 horticultural crops, pest control 10745-10746
 host parasite relationships, models 2497
 insects
 conservation 6397
 identification 1000
 Isoptera 831
 conferences 6241
 pastures, bibliographies 9114, 12013
 pest control
 books 4230
 information 4230
 natural resources 3217
 pesticides, information 4227
Phaseolus lunatus, insect pests 2821
Phaseolus vulgaris, insect pests 8696
Rhyzopertha dominica 852
 rice, viruses, reviews 5672
 soil, invertebrates 1348
- Tropidocephalini**
 Africa 2155
 taxonomy 2155
- Tropilaelaps**, control 1254
- Tropilaelaps clareae**
 biology 1264, 7517
 reproduction 1250
 control
 acaricides 1250, 6576, 7517
 integrated control 1252
 ecology, distribution 10450
 hosts
Apis dorsata 10450
Apis mellifera 1250, 1252, 6576, 7517, 9431
 morphology 1264, 7517
 larvae 9431
 prey, *Apis mellifera* 1264
 South East Asia 7517
 Thailand 6576, 9431, 10450
- Trunc-call 1** (see *(E)*-1-Methylethyl 2-methyl-2-pentenoate)
- Trunc-call 2** (see 1-Methylethyl (2*E*,4*E*)-2,4-dimethyl-2,4-heptadienoate)
- Trypeta hexachaeta**, taxonomy 6639
- Trypetimorphini**, taxonomy 2135
- Trypodendron**
 Palaearctic Region 5269
 taxonomy 5269
- Trypodendron domesticum**
 monitoring, traps 801
Pinus sylvestris, Sweden 801
- Trypodendron lineatum**
 attractants 803
 bioassays 4035
 biology, dispersal 8860, 9963
 conifers, British Columbia 8860
 forest trees, British Columbia 9963
 forests, Norway 1872
 monitoring, traps 1872, 8860
 Norway 2990
 pheromones 2990, 4329
 physiology, sense organs 4329
Picea abies, wood, damage 8955-8956
- Trypodendron lineatum** *cont.*
Pinus sylvestris, Sweden 803
 plant extracts, effects 4035
 predators 2990
- Trypodendron piceum**
 forests, Norway 1872
 monitoring, traps 1872
- Trypodendron signatum**
 attractants 2347
 distribution, Korea Republic 2347
- Tryporyza incertulas** (see *Scirpophaga incertulas*; *Scirpophaga incertulas*)
- Tryporyza innotata** (see *Scirpophaga innotata*)
- Tryporyza nivella** (see *Scirpophaga nivella*)
- Tryptophan**, kairomones, *Ascogaster reticulata* 234
- Tsuga**
 Adelgidae 9987
Chermes tsugae, Connecticut 5945
- Tsuga canadensis**
Chermes tsugae, Connecticut 7071
Lambdina fiscellaria, Canada 9975
- Tsuga heterophylla**
Lambdina fiscellaria
 British Columbia 7038
 Canada 9975
- Tsumacide** (see *Metolcarb*)
- Tubificidae**
 ecology 11571
 rice, fields, Japan 11571
- Tuckerella**
 taxonomy 7739
 tea, Kenya 4959
- Tuckerella elegans**
Datura arborea, Costa Rica 7739
 taxonomy 7739
- Tuckerella knorri**
 biology, reproduction 576
 lemons, Costa Rica 576, 7739
 taxonomy 7739
- Tuckerella ornata** (see *T. pavoniformis*)
- Tuckerella pavoniformis**
 fruits, Costa Rica 7739
 taxonomy 7739
- Tulip breaking potyvirus**, vectors, Aphididae 10886
- Tulipa agenensis**, insects, pollination 6993
- Tulips**, Aphididae, Washington 10886
- Tullbergia granulata**, predators 2465
- Tunisia**
Danaus chrysippus 1180
Delia coarctata 6457
Drosophila melanogaster 6411
Gephyraulus 3975
Phthorimaea operculella 11744
- Turanogryllus**
 India 5266
 taxonomy 5266
- Turf** (see *Lawns and turf*)
- Turkey**
Ablattaria arenaria 3521
Aphodius 1184
Bemisia tabaci 1664, 1736, 2910
 Chrysomelidae 9493
 Coccoidea 2695
 Coleoptera, books 1005
 Cryptostigmata 3404-3405
 Drosophilidae 6257
 Dryinidae 11450
Hyalesthes 9645
Macroscytus brunneus 2891
Onthophagus 8208
Ostrinia nubilalis 2626, 8496
Pachypasa otus 7321
Parabemisia myricae 2758
Propomacrus bimucronatus 7440
 Psylloidea 8304
 Scarabaeidae 2145
 Scolytidae 2950
Spodoptera exigua 9560
 stored products, pesticide residues, conferences 10184
- Turmeric** (*Curcuma longa*)
 arthropod pests
 biology 6233
 control 6233
 damage 6233
 natural enemies 6233

- Turmeric** *cont.*
oils, repellents, *Rhyzopertha dominica* 10032
- Turnip mosaic potyvirus**
vectors
Aphididae 6853
Myzus persicae 1614
- Turnip rape** (*Brassica campestris* var. *oleifera*)
Meligethes aeneus
Finland 9486
Switzerland 9762
- Turnips** (*Brassica campestris* subsp. *rapifera*)
Aphididae, Afghanistan 6853
Chromatomyia horticola, India 6871
Deroceras reticulatum, damage 327
fields, *Trichogramma buesi*, Egypt 5790
Mocis latipes, America 6459
Myzus persicae 1703
Pieris rapae, Egypt 5790
- Turpentine**
attractants, Curculionidae 8896
mixtures
attractants
Curculionidae 5949
Hylobius abietis 8825
- Tursiops truncatus**, insecticides, residues 8127
- Tussilago farfara**, *Scrobipalpula tussilaginis*, UK 9736
- Tychius quinquepunctatus**
biology 9793
peas, Hungary 9793
- Tydeidae**
biology 575, 11625
ecology 9330
grapefruits, Cuba 575
predators 575, 8631
soil, Mexico 9330
vineyards, Hungary 11625
woody plants, habitats 10469
- Tydeus**, prey, *Phyllocoptruta oleivora* 2462
- Tydeus artichokei**
globe artichokes, Egypt 2788
taxonomy, new species 2788
- Tydeus californicus** (see *Orthotydeus californicus*)
- Tydeus caudatus** (see *Orthotydeus caudatus*)
- Tydeus dignus**
biology 1331
USSR 1331
- Tydeus fabae**
taxonomy, new species 1029
Vicia faba, fields, Egypt 1029
- Tydeus visendus**
biology 1331
USSR 1331
- Tylenchorhynchus**, biological control
agents, evaluation 6108
- Tymoviruses**, vectors, Coleoptera 8006
- Tyndarichus oculomerus**, taxonomy, synonyms, of *Parechthrodryinus clavicornis* 2459
- Tyndaris robusta**
forest trees, Mexico 2988
taxonomy, new species 2988
- Typha latifolia**
Agonum galvestonicum, USA 3604
insecticides, residues 8133
- Typhaea stercorea**
barley
commodities 11029
Minnesota 11880
insecticides, resistance 8952
maize, commodities 8952
monitoring, traps 11029
- Typhlocyba froggatti** (see *Edwardsiana crataegi*)
- Typhlocyba pomaria**, apples, British Columbia 1562
- Typhlocybinae**, distribution, China 5388
- Typhlodromalus tenuiscutus**
bananas, Peru 5763
taxonomy, new species 5763
- Typhlodromus alveolaris**, *Hibiscus elatus*, habitats 9946
- Typhlodromus annectens** (see *Galendromus annectens*)
- Typhlodromus bakeri**
ecology, habitats 11432
Ontario 11432
- Typhlodromus borealis**
China 1885
morphology 1885
- Typhlodromus caudiglans** (see *Anthoseius caudiglans*)
- Typhlodromus elatus**
distribution, Cuba 9946
morphology 9946
- Typhlodromus exhilaratus**
biology 3628, 9664
pesticides, effects 5711
prey
Aceria caulobius 3628
Eotetranychus carpini 9664
Suaeda fruticosa, habitats, Italy 3628
vineyards, Italy 5711
- Typhlodromus hellei**
taxonomy, new species 2563
Zilla spinosa, Egypt 2563
- Typhlodromus occidentalis** (see *Metaseiulus occidentalis*)
- Typhlodromus peregrinus** (see *Amblyseius peregrinus*)
- Typhlodromus pyri**
apples
orchards
Czechoslovakia 3787
Italy 5728
Netherlands 10709
New Zealand 552, 6817
Nova Scotia 2738, 10701
Ontario 8586
Oregon 9685
biology 3787
behaviour 10453
diapause 4515
food preferences 8344
carotenoids, effects 4515
control
Panonychus ulmi 5728, 6817
Tetranychidae 4723
ecology 9685
population dynamics 552, 8586
food 4515
insecticides
effects 2738, 5728, 10701
resistance 6817
orchards, Austria 2741
pesticides, effects 9665
predators 4723
prey
Acari 8344, 8586
mites 10453, 10701
Panonychus ulmi 552, 9665, 10681
vineyards
German Federal Republic 10681
Italy 4723, 9665
- Typhlodromus talbii**
pesticides, effects 9665
vineyards, Italy 9665
- Typhonini**
hosts, Symphyta 1030
taxonomy 1030
- Typocerus serraticornis**
biology 3630
morphology, developmental stages 3630
Oryzopsis hymenoides, USA 3630
parasitoids 3630
- Tyres**, arthropods, South Africa 8318
- Tyria jacobaeae**
biology 3624
behaviour 10512
California 8417
control, *Senecio jacobaeae* 8417
ecology, population dynamics 6637
fertilizers, effects 3624
Senecio jacobaeae 10512
interactions 6637
UK 3624, 6637
- Tyrophagus**
taxonomy 11024
tyres, South Africa 8318
- Tyrophagus dimidiatus**, cereal grains 11036
- Tyrophagus longior**
biology, environmental factors 8460
- Tyrophagus longior** *cont.*
cereal grains, UK 8942
control, acaricides 8812
ornamental plants, UK 8812
wheat, commodities, damage 8460
- Tyrophagus neiswanderi**, pheromones 9779
- Tyrophagus perniciosus**
biochemistry, secretions 10271
pheromones 9779
spinach, Japan 1606
- Tyrophagus putrescentiae**
cereal grains
Brazil 859
UK 8942
chemosterilants 8939-8940
control, acaricides 7121
dates, commodities, damage 1913
distribution, Philippines 7080
ecology
competition 139
population dynamics 11872
flax, seeds 7121
flours 4067
man, allergens 8942
morphology 2125
pheromones 9779, 10270
plant extracts, toxicity 4067
predators 1344, 1521, 2465
taxonomy 2125
yeasts 11872
- Tyrophagus sayasi**
stored products, UK 11024
taxonomy, new species 11024
- Tyrophagus similis**
control, acaricides 9746
pheromones 9779
predators 9746
spinach
Italy 9746
Japan 1606
- UC-55248** (see 5,5-Dimethyl-2-(2-methylphenyl)-3-oxo-1-cyclohexen-1-yl)
- UCZF-19** (see Mexacarbate)
- Udea ferrugalis**
biology 4816
chicory, Italy 4816
control 7803
food plants, Italy 7803
- Uga menoni**
hosts
Epilachna ocellata 2812
Epilachna vigintioctomaculata 3914
Solanum, fields, Korea Republic 3914
- Uganda**
Antestiopsis 769
Atherigona bowdeni 6680
forests, arthropods 4034
Macrotermes bellicosus 5523
Mononychellus 2938
- UK**
Achlya flavicornis 7040
Acrolepiopsis betulella 9735
Aglais urticae 11365
agricultural research, reports 9135
Aleurotuba jelinekii 7035
Aphididae 8443, 10349
predators 8739
books 7267
Apis mellifera 7540
aquatic insects, indicator species 9314
aquatic organisms, books 7268
Araneae 5477, 5682
Argyresthia glaucinella 9967
Auchenorrhyncha 9612
Autographa gamma 8808
Biosteres spinaciae, hosts 5464
Blepharidopterus angulatus 6806
Boettgerilla pallens 308
cabbages, slugs 612
Callicera rufa 9979
cereals
fields
invertebrates 371
predatory arthropods 3516, 8444
pests, books 10190
slugs 370
Cleonis pigra, parasitoids 4577
Coccinellidae, books 7266
Coleoptera 4694, 6539, 9342
habitats 10351

- UK cont.**
 crops, pest control 12036
Cryptolestes ferrugineus 7103
 Curculionidae 10921
Cydia medicaginis 8300
 Cynipidae, parasitoids 11805
Decticus verrucivorus 9623
Delia floralis 10838
Delia radicum 8749, 9761
Deroceras reticulatum 358, 954, 4702, 6617, 8405
 predators 598
Diaeretiella rapae, hosts 5484
Dichroscytis valesianus 827
 Diptera 2349, 7264
 predators 4808
Dolichovespula saxonica 2492
 entomology, reports 5034, 6245
Eristalis pertinax 9985
Euceraphis punctipennis 9990
Euproctis chrysorrhoea 8063
 parasitoids 5954
Fiorinia externa 11864
 forests, arthropods 7036
 Formicidae 9924
 Gastropoda 2548
 books 11257
Gelechia senticetella 8299
Glyphina pseudoschrunkiana 5000
Gonioctena pallida 826
 Gramineae, insects 9620
Graphiphora augur 509-510
 grasslands
 arthropods 8535
 Hemiptera 9545, 9611
Halyzia sexdecimnotata 1854
 heathlands, insects 6470
 Hemiptera, parasitoids 9438
 Heterocera 926, 9341, 9619
Hipparchia semele 9321
Hyalopterus pruni, predators 339
 Hymenoptera 2355, 6568
 books 3215
 insecticides, residues, law 2002
 insects 2363
 conservation 6397
 invertebrates, nomenclature, books 1012
Larix, insect pests 5065
Lasius flavus 202, 9624-9625
Leopoldius brevirostris 2364
 Lepidoptera 6398, 7415, 11397
 books 1003, 8166
Lepinotus patruelis 8950
Leptophyes punctatissima 9984
Limax pseudoflavus 310
Lycaena phlaeas 154
Macrosiphum albifrons 9630
 mammals, insecticide residues 7206
Medetera pinicola 3071
Megaselia 7263
Meligethes aeneus 10766
 methiocarb, usage, reviews 299
Metopolophium dirhodum 5595
Mompha subdivisella 9505
 mushrooms, pest control 7283
Myzus persicae 3171, 4874, 5838, 8266
 predators 695
Operophtera brumata, parasitoids 2722
 orchards, pest control 491
 Orthopteroidea, books 7255
Oryzaephilus surinamensis 6034
Oscinella 6757-6758, 7679
Panolis flammula 3026, 5077, 5964, 7051, 7903
 natural enemies 3011
Pararge aegeria 11362
 pastures, slugs 475
 pesticides
 law, books 7270
 usage, reports 6246
Philaenus spumarius 7382
Phorodon humuli 2579
Phytomyza ranunculi, predators 9989
Pieris brassicae 9051
Pieris napi 138
Pityogenes bidentatus, parasitoids 11434
 plant breeding, reports 8184
 plant protection, reports 10223
- UK cont.**
 plants, insects, interactions 10095, 10352
Polygonia c-album 2327
 Pompilidae 7261
 potatoes, slugs 705
 Prosobranchia 11257
 Pseudococcidae, interceptions 7085
 Pseudoscorpiones 4226
Psila rosae 10819
Psylliodes chrysocephala 4820
Pteridium aquilinum
 biological control agents 11504
 insects 6636
Pygmephorus 6860
Quercus robur, Lepidoptera 2985
Resseliella theobaldi 3762
 Rhopalocera 6392, 6471, 7597, 8457, 9530
Rhopalosiphum padi 5594, 10959
Rhynchaenus testaceus 3031
 Rosaceae, insects 9917
Scrobipalpula tussilaginis 9736
 sewage sludge, insecticide residues 5214
 Siricidae 9983
Sitobion 6663
Sitobion avenae 5602, 8459
 parasitoids 10561
 predators 8470
 slugs 302, 304, 704, 3659
 social insects, conferences 10217
 Staphylinidae 6540
Staphylinus olens, prey 9396
 stored products pests 8942
 sugarbeet, pest control 2859
Synanthedon scoliaeformis 9969
Synergus claudestinus 7436
 Syrphidae 2475, 6563, 8350, 10471
 Tenthredinidae 3987
 Tephritidae 7262
Tephritis bardanae 6666
 Thysanoptera, predators 4837
Tipula 8524, 11595
Tipula paludosa 1367
 Tipulidae 7674, 8537
Trialeurodes vaporariorum, parasitoids 8761
Trifolium pratense, insect pests 6775
Trifolium repens
 insect pests 1511
 invertebrates 5692
Tyria jacobaeae 3624, 6637
Tyrophagus longior 8812
Tyrophagus savasi 11024
Vespa crabro 6541
 prey 5463
 Vespidae 2493
Vicia sativa
 insect pests 1529
 insects 1530
 wheat, slugs 9538
Zygaena lonicerae 7435
Ulex europaeus, Tortricidae 8546
Ulmus
 Aphididae, Czechoslovakia 4011
Eriosoma 5264
 galls 9940
Euproctis chrysorrhoea, Italy 5970
 forests, *Brachymeria intermedia*, France 3012
Lymantria dispar, outbreaks 3012
Pteleobius vittatus, German Federal Republic 10005
Pyrrhalta luteola, France 5926
Scolytus, USSR 4990, 7017
Scolytus pygmaeus, Czechoslovakia 4405
 trees, parasitoids, Italy 5970
Ulmus americana
Hylurgopinus rufipes, Manitoba 1852
 Scolytidae, Ontario 7940
Ulmus davidiana
Hypera, China 3993
Styromonidia w-album, Japan 2957
Ulmus japonica (see *U. davidiana*)
Ulmus minor, *Nymphalis polychloros*, Spain 1824
Ulmus procera, *Pyrrhalta luteola*, California 10014, 10950
- Ulmus pumila**
Pyrrhalta luteola
 California 10014, 10950
 Colorado 7011
Scolytus multistriatus 5051
Uloborus
 prey, *Oligonychus indicus* 4675
 sorghum, India 4675
Uloborus glomosus
 cotton, fields, Texas 8777
 prey, cotton, insect pests 8777
Ulodemis trigrapha, forest trees, India 8917
Ulmoides, taxonomy, synonyms, *Palembus* 8198
Ultrasound, effects, Lepidoptera 5374
Ultraviolet radiation, effects, *Ephesia* 7770
Umbelliferae
 Coleoptera, Poland 10820
Cynthia cardui 323
 insects
 biology 8411
 evolution 8411
 interactions 8411
Papilio zelicaon, Washington 4345
Unaspis yanonensis, mandarins, Japan 11665
Unaspis citri
 biology, reproduction 9713
Citrus, Cuba 9713, 10724
 control, insecticides 10724
 Cuba 9452
 parasitoids 9446, 9452
Unaspis euonymi
Euonymus fortunei, Kentucky 5907, 10961
 parasitoids 8365
 USSR 6015
Unaspis yanonensis
 biology, behaviour 4778
Citrus
 Asia 6459
 Japan 2764, 6832-6833, 9703
 control, biological control 6832, 9703
 distribution, maps 6459
 ecology, distribution 2764
 food plants 4778
 kairomones 8365
 parasitoids 221, 8365, 11665
 plant extracts, effects 7169
 predators 6833
 rearing techniques 4778
Uncinaton, antifedants, *Sitophilus oryzae* 430
n-Undecane, mixtures, pheromones, *Erthesina fullo* 7069
(E)-5-Undecenoic acid
 mixtures, pheromones, *Anthrenus verbasci* 1895
 synthesis 1895
(Z)-5-Undecenoic acid
 mixtures, pheromones, *Anthrenus verbasci* 1895
 synthesis 1895
Union of Soviet Socialist Republics (see USSR)
United States of America (see USA)
United States Virgin Islands
Heliopsis virescens 8716
Spodoptera frugiperda 1492
Unkanodes albifascia
 parasitoids 1491
 rice, Japan 1491
Uplord (see Buprofezin)
Upper Volta (see Burkina Faso)
Uraba lugens
Eucalyptus, South Australia 8915
 parasitoids 3525, 8915
 taxonomy 8915
Uracanthus cupressianus
 biology 5983
Cupressus, South Australia 5983
 taxonomy, new species 5983
Urban areas
 Arachnida, Italy 2351
 Collembola, Poland 1190
 Elateridae, Poland 2298
 Hymenoptera, Poland 1329
 Ichneumonidae, Poland 2440
 Sphecidae, Poland 2441

- Urbanization, effects, *Formica rufa* group 7484
- Urbanus proteus**
identification 6893
morphology, eggs 6893
soyabeans, Florida 6893
- Urd bean leaf crinkle virus**, vectors, *Aphis craccivora* 6887, 9796
- Urd bean yellow mosaic virus**, vectors, *Bemisia tabaci* 4088
- Urd beans** (see *Vigna mungo*)
- Urea**
mixtures
toxicity
 Spilosoma obliqua 1953
 Tribolium confusum 9066
toxicity, *Tribolium confusum* 9066
- Urentius hystericellus**
control, insecticides 9854, 10865
food plants, Pakistan 10865
 Solanum integrifolium, Ghana 9854
- Urentius sentis** (see *U. hystericellus*)
- Uresiphita reversalis**
biology, behaviour 5550
food plants, California 5550
plant extracts, effects 10893
predators 5550
- Urgleptes oxophagus**
mangroves, Belize 1401
taxonomy, new species 1401
- Urocerus flavicornis**
distribution, Norway 1192
timbers
 Canada 1192
 Norway 1192
- Urocerus gigas**
 Amylostereum chailletii, transmission 5065
forest trees, UK 9983
 Larix, UK 5065
predators 9983
- Urochloa panicoides**, *Rhopalosiphum*, Queensland 1429
- Uroleucon**
oranges, Brazil 9718
parasitoids 1392
predators 9718
weeds, German Federal Republic 1392
- Uroleucon carthami**
control, insecticides 2898
predators 3503
safflower, India 2898
- Uroleucon cirsii**
 Cirsium arvense, German Federal Republic 3611
ecology, population dynamics 3611
parasitoids 1392
weeds, German Federal Republic 1392
- Uroleucon compositae**
distribution, Jordan 5392
safflower, resistance 7849
- Uroleucon doronici**
biology 9919
distribution, German Democratic Republic 9919
 Doronicum 9919
morphology 9919
- Uroleucon jaceae**
parasitoids 1392
weeds, German Federal Republic 1392
- Uroleucon nigrotuberculatum**
ecology, distribution 4584
natural enemies 4584
predators 7535
 Solidago altissima, Florida 4584
- Uroleucon sonchi**
lettuces, resistance 9750
parasitoids 1760
 Sonchus, Israel 1760
- Uroleucon tissoti**
ecology, distribution 4584
natural enemies 4584
 Solidago altissima, Florida 4584
- Urophora affinis**, predators 8422
- Urophora cardui**
 Cirsium arvense, galls 2566
ecology, dispersal 2566
German Federal Republic 2566
parasitoids 2566
- Urophora quadrifasciata**
control, *Centaurea solstitialis*, evaluation 6643
food plants 6643
- Urophorus humeralis**
 Annona cherimola × *A. squamosa*, Florida 4804
distribution, Saudi Arabia 143
Hawaii 1971
natural enemies 1971
- Uroplata girardi**
control
 Lantana camara 4593
 reviews 6633
New Caledonia 4593
New South Wales 6633
- Uroplatini**, taxonomy 4678
- Uropoda**
Coleoptera, phoresy 10248
morphology 10248
poultry droppings, habitats 10248
- Uropodidae**
biology, behaviour 4447
ecology, population dynamics 9938
hosts
 Aulonum ruficorne 9938
 Formicidae 4447
Israel 9938
- Uropodina**
ecology, population dynamics 3402
France 3402
- Urtica dioica**
extracts, control, Aphididae 9783
 Helix lucorum 5540
 Polygonia c-album, Sweden 6650
- Urtica dioica gracilis**, *Polygonia satyrus*, Colorado 1548
- Urtica parviflora**, *Brachycaudus helichrysi*, India 1387
- Urticaceae**
 Cynthia cardui 323
 Planococcus sulawesi 16
- Uruguay**
 Dichroplus 4436
 Scapteriscus 10079
 predators 2491
- USA**
 Anagrus epos 5712
 Anthonomus 8201
 Aphididae 1421
 Apis, ectoparasites 6574
 Apis mellifera, pathogens 11271
 apples, pest control 10703
 Araneae 4025
 Arctiidae 6429
 Astragalus, insects 5561
 Baccharis halimifolia, natural enemies 1391
 Baccharis salicifolia
 arthropods 9506
 biological control agents 4588
 biological control 4154
 conferences 6240
 reviews 10090
 Braconidae 6566
 Cacopsylla pyricola 1565
 Centaurea, natural enemies 6630
 Centaurea solstitialis, biological control agents 6643
 Chymomyza amoena 10711
 clothing, insecticides, contamination 8132
 Cochylis hospes 7851
 cotton
 pest control, conferences 1017
 pest resistance, conferences 1018
 Crematogaster 3481
 crops, pest control 11115-11116
 Cryptolestes cornutus 6044
 Danaus plexippus 6664
 Dendroctonus simplex 10964
 Dermaptera 9161
 Diabrotica virgifera group 2127
 Dioryctria taedivorella 4994
 Diuraphis noxia 4601
 Eichhornia crassipes, natural enemies 10519
 Elasmopalpus lignosellus, biological control agents 4640
 Enchenopa binotata complex 5955, 5957
- USA cont.**
entomology
 history 7304
 museums 6249
 Eucosma sonomana 10927
forest pests 1785
fruits, reports 2113
groundwater, insecticide residues 5210, 10144
 Heliothis, control, conferences 1015
 Heteroptera 9339
 Hyadaphis tataricae 1763
 Hydrilla verticillata, biological control agents 4587
 Hypera brunneipennis 3743
insecticides
 registration 8174
 usage 6150
insects, biogeography 8912
integrated pest management, reviews 8061
Isoptera 8394, 9463
jojoba, insect pests, parasitoids 3921
Kalotermitidae 3577
Lepidoptera 10360
 Liriomyza trifolii 8813
 lucerne, pests 3682
 Lygus lineolaris 1397, 7955
 Lymantria dispar 5245
 introduction 7948
 Magdicada 8219
man
 insecticide residues 2019
 pesticides, effects 960
 Merobruchus 3249
Myriapoda 3247
 Nabis 3545
Noctuidae 2354
 Occidryas 1140
ornamental plants, integrated pest management 6998
Orthoptera 9371
 Otiorynchus sulcatus, pathogens 6672
 Oxypteris 9149
 Pectinophora gossypiella, parasitoids 6971
Pentatomoidea 9331
pest control 6103
 books 7256, 11259
pesticide residues 11230
pesticides
 registration 9487
 usage 2120
 Phyllocolpa fructiphilus 10506
 Pieris rapae 8680
 Pistia stratiotes, natural enemies 5556
plant pathogens, conferences 9127
 Platynota 3791
 Pogonomyrmex rugosus 6371
rangelands, arthropod pests 11255
 Rhagoletis pomonella 3458, 5734
 Rhizophagus pseudobrunneus 9139
 Rhyacionia frustrana 10929
 Rumex crispus, biological control agents 5575
 Solenopsis 10427
soyabeans, pest control 10800
 Sympiesis marylandensis, parasitoids 1330
 Tenodera aridifolia 6545
Tetranychidae 10689
 pathogens 6092
 Texocoris nigrellus 2939
 Typocerus serraticornis, parasitoids 3630
 Varroa jacobsoni 6587
 Xyleborus 9965
- Alabama**
 Carphoborus bicornus 9962
 Cydia caryana 7719
 Elasmopalpus lignosellus 9816
 Eriocampa juglandis 5039
groundnuts
 commodities, insect pests 11895
 insects 10810
 Macrosiphum rosae 786
 Spissistilus festinus 6897
 Thiona bullata 2955
- Alaska**
 Dasineura swainei 1884
 Dendroctonus rufipennis 7010

- USA cont.**
 Alaska cont.
Dendroctonus simplex 10964
 Hydrophilidae 7306
Micromus 3528
 Arizona
 Acrididae 3730, 10642
Agelenopsis aperta 10442
Anthonomus grandis 4923-4924, 8779, 9882
Aphis gossypii 7869
Asphondylia 8438
 parasitoids 8437
Baccharis sarothroides, insect pests 1403
Bemisia tabaci 7764
Bucculatrix thurberiella 9881
Choristoneura occidentalis 1773
Cicindela 9622
 parasitoids 3530
Coloradia pandora 11821
Conophthorus 9942
 cotton
 arthropod pests 6980
 insect pests 2919, 7867
Dendroctonus valens 6268
Diplolepis 9915
Efferia wilcoxi, prey 10440
Euura lasiolepis 4013, 5918
 parasitoids 4980
Formica altipetens 5433
 Formicidae 4458
Frankliniella occidentalis 6426
Helenium hoopesi, arthropods 3615
 insects, biogeography 8912
Ips, predators 8870
 Isoptera 4548
Mordellistena tetraspilota 7675
Neodiprion 8837
 Noctuidae 2914
Pectinophora gossypiella 4936, 4938, 10862
Phyllocolpa 8919
Pinus ponderosa, insect pests 5991, 11823
Pogonomyrmex rugosus, pathogens 11946
Pontania, natural enemies 4981
Pontania pacifica 7958
 Rhopalocera 3414
Sphecius grandis 8333
 stored products, Coleoptera, interceptions 11019
Styloxus bicolor 9935
 Tenthredinidae 4982
Veromessor pergandei 3484
 Arkansas
Agrilus ruficollis 3761
Anthonomus grandis 7856
Anticarsia gemmatilis 9802
 Aradidae 3410
 Araneae 5454
Cochylis hospes 7851
Disonycha punctigera, parasitoids 3605
 fishes, pesticide residues 8129
Heliothis virescens 8778
Lissorhoptrus oryzophilus 11565
Lygus lineolaris 1663
Magicicada 5357
Neodiprion taedae 5005
 Noctuidae 9805
 parasitoids 3726, 6749
Phaseolus vulgaris, Lepidoptera 3873
Spissistilus festinus 8707, 9638
 California 8762
 Acrididae 11527
Aculops lycopersici 7838
 air, insecticide residues 5635
 almonds, insect pests 523
Ammophila dysmica, parasitoids 2496
Amyelois transitella 4724, 9669-9670
Anarsia lineatella 8635
 Aphididae, parasitoids 5789
Aphytis melinus 2762
Apterothrips secticornis 462
 Araneae 5446, 8906
- USA cont.**
 California cont.
 arthropod pests, introduced species 1984
 arthropods 6642
 Asteraceae, insects 6655
Bactrocera dorsalis 490
Bangasternus orientalis 6630
Battus philenor 10333-10334
 birds, insecticide residues 10148
Brevicoryne brassicae, predators 6863
Cacopsylla pyricola 8623
Cecidomyia 8901
Cecidomyia piniinopis 10940-10941
Ceratitis capitata 4428
Chondrilla juncea, natural enemies 1383
Chromaphis juglandicola, parasitoids 6801
 Cicadellidae 1549
Cinara nigra 10962
 Citrus, insecticide residues 570
Coccus pseudomagnoliarum, biological control agents 2756
Coleophora klimeschiella, parasitoids 4590
Conophthorus 9942
 cotton, pest control 7447
 crops, insecticides, degradation 4814
Cydia pomonella, parasitoids 9680
 Cynipidae 1807
Danaus plexippus 8427
Dendroctonus valens 6268
Drosophila 5722
Empoasca, natural enemies 11710
Eotetranychus willamettei 8571
Erigeron glaucus, insect pests 3632
Erythroneura, parasitoids 5712
Eucosma sonomana 10928
 figs, insects 6045
 fog, insecticide residues 10149
 forest trees, insect pests 4006
 Formicidae 9384
Frankliniella occidentalis, predators 8662
 groundwater, insecticide residues 10153
Harrisina brillians 5713
Helicoverpa zea 4712
Heliothrips haemorrhoidalis, parasitoids 3806
Hippodamia convergens 9399
Hippomelas janae 3982
 Homoptera 11708
Hypera postica 8791
 parasitoids 9640
Icerya purchasi, parasitoids 8640
 insect pests, predators 9593
 insecticides
 degradation 6207
 nontarget effects 6769
Ips, predators 8870
Keiferia lycopersicella 726
 Lepidoptera, parasitoids 8762
Ligurotettix 5008
Ligurotettix coquillettii 6677
Liriomyza trifolii 4966, 7003
Lordotus pulcherrimus 10356-10357
 lucerne, insect pests 11605, 11611
 Lycaenidae 2159
Lymantria dispar 7947
 man
 insecticide residues 967
 insecticides, effects 9079-9080
 pesticides, effects 8107
Metaseiulus occidentalis 2693
Neaspilota 3635
 Nemomychidae 5261
 Noctuidae 9635, 11500
 Nymphalidae 2151
Occidryas editha 2366, 3374, 3457, 5555
 oranges, arthropod pests 8649
Orgyia pseudotsugata 5925
Otiorynchus sulcatus 3770
Panonychus citri 2768, 9710, 10728
Pantomorus cervinus 10721
Papilio zelicaon 3358
Parabemisia myricae 6455
- USA cont.**
 California cont.
Paracantha gentilis 6647
 parasitoids 11503
 peaches, Lepidoptera 8633
Pectinophora gossypiella 6976, 10862
Pemphigus populivenerae, natural enemies 8732
 pesticides
 carcinogens, conferences 10211
 photosensitivity, conferences 3222
Phryganidia californica 1783, 8886
Phthorimaea operculella 7349
Phytonemus pallidus 504
 Phytoseiidae 9646
Pieris rapae 9771
Pinus ponderosa
 insect pests 5991
 insecticide residues 1845
Pissodes terminalis 8843
Plodia interpunctella 10074
Pogonomyrmex 10393
Polymerus castilleja 5560
Pseudotsuga menziesii, insect pests 2999, 6007
Pyrrhalta luteola 10014, 10950
Reticulitermes hesperus 4077
Rhagoletis completa 8577
Rhopalomyia californica, parasitoids 4597
Rhyacionia zozana, natural enemies 1866
 rice, insect pests, predators 4672
Rodolia cardinalis, prey 2767
Saissetia oleae, parasitoids 1590
Salsola australis, biological control agents 11511
Scirtothrips citri 5751, 8643
Senecio jacobaea, natural enemies 8417
Siphoninus phillyrae, natural enemies 8914
Spodoptera exigua 11977
 stored products, Coleoptera, interceptions 11019
 Tenebrionidae 3983
 Tephritidae 3753
Tetranychus pacificus 7720
 acaricide resistance 2719
Tetranychus urticae 4935
 tomatoes
 insect pests 4904
 Lepidoptera, parasitoids 9851
Trichogramma 5462
Trichoplusia ni 7348
Trioxys pallidus 11634
Uresiphita reversalis 5550
Veromessor pergandei 3484
Xylococcus macrocarpa, parasitoids 1861
 Colorado
 Acrididae 3472
Agrotis ipsilon 3669
Antennoseius janus 2465
Aphaenogaster occidentalis 10412
 Aphididae 8285
Cardamine cordifolia, insect pests 7707
Dichroscytus 1864
Leptinotarsa decemlineata 7824, 9829
Limenitis weidemeyerii 2314
 Mesostigmata 8533
 Noctuidae, predators 10438
 Nymphalidae 9913
Occidryas chalcedona 6628
Occidryas editha 2320
Paracantha gentilis, parasitoids 11503
Pinus ponderosa, insect pests 5991
Platanthera huronensis, pollinators 7889
Pogonomyrmex occidentalis 8326
 Polygonia 1548
Pontia occidentalis 4369
 potatoes, insecticides, effects 1681
Pyrrhalta luteola, pathogens 7011
Rhagoletis 4731
Rhagoletis pomonella 4755

USA cont.

Colorado cont.

- Scaptomyza nigrita* 6662
 Scarabaeidae 9626
 soil arthropods 10639

Connecticut

- Brassica oleracea*, insect pests 9759
Cacopsylla pyricola 4761
 Carabidae 2474
Chermes tsugae 5945, 7071
Cicindela repanda 3519
Coptodisca negligens 9657
Deraeocoris piceicola 11808
 Gracillariidae, parasitoids 10705
Lymantria dispar 3006, 8897, 9977, 11008
 predators 5043, 7062, 7961, 9955, 11444

Pineus 11813

- Pinus*, Hemiptera 9971
Spodoptera frugiperda 3676
 vegetables, insect pests 10769

Delaware

- Coleomegilla maculata* 6542
Lycoriella mali, insecticide resistance 2792
Megalonotus chiragrus sabulicolus 4589
Platynota idaeusalis 8604
Tenodera 8351

District of Columbia, *Thiona simplex* 2955

Florida

- Achurum carinatum* 2669
Altica foliacea, parasitoids 10476
Amyothrips andersoni 4579
Anastrepha suspensa 2779, 3079
Annona cherimola × *A. squamosa*, pollinators 4804
Anticarsia gemmatilis 6895
 predators 4862, 8712
Aphis gossypii 5747
Apis mellifera
 ectoparasites 7491, 10474
 pathogens 11271
 Aradidae 7444
 Araneae 8379
 prey 8354
 arthropods 3977
Asimina, Lepidoptera 7566
Brachys ovatus, natural enemies 11006
Camponotus castaneus, pathogens 8323
 celery, insecticide residues 6859
Ceratitis capitata 578, 11122
Chilocorus stigma, ectoparasites 4470
 Cicadellidae 11666
 Coleoptera 4451
Colopterus posticus 4794
Coptotermes formosanus 8395, 11481
 crops, pests 4166
 Cryptostigmata 9143
 Curculionidae 4777
Cylas formicarius 6667, 9838
Dalbulus maidis 10584
Danaus plexippus 9495
Dendroctonus terebrans 6268, 7238
Dyscinetus morator 10513
 ecology, conferences 5241
Elasmopalpus lignosellus 3881, 9816
Euphasiapteryx 6580
Forcipomyia dolichopoda 6657
 Formicidae 1223, 4448
 groundnuts, commodities, insect pests 11895
 groundwater, insecticide residues 10154
Gryllus rubens 9189
Heliothis subflexa 8554
 Homoptera, parasitoids 11431
 Isoptera 3576, 4548
Ithome lassula 7058
Lemnaphila scotlandae, parasitoids 4581
 Lepidoptera 1390, 4451
Ligyris subtropicus, pathogens 4609

USA cont.

Florida cont.

- Liriomyza*, parasitoids 6649
Liriomyza trifolii 2789, 4966
Macalla thyrissalis, parasitoids 7943
 man
 insecticides, effects 9073, 12018
 pesticides, effects 959, 3184
Megastigmus floridanus 7074
Megastigmus transvaalensis 11800
Mocis latipes 2672
Neargyractis slossonalis 3976
Neolasioptera rostrata 3618
Neotermes luykxi 3577
 Noctuidae 925, 6858, 7801, 11725
Oebalus pugnax 5650
Oedancala 11591
 oranges, Acari 9720
Orthotomicus caelatus 10010
Pantomorus cervinus 8644, 10720
Papilio glaucus 6661
Parapoinx diminutalis 8430
Pasimachus subulcatus 246
Pheidole dentata 2421
Phthiria punctipennis 5566
Phyllocoptruta oleivora 2755, 6839
Pinus elliotii, insect pests 11790
Pistia stratiotes, natural enemies 9492
Platypus 7043
Plotococcus eugeniae, predators 1762
Plutella xylostella 3852
Polyphagotarsonemus latus, predators 6841
Prepops cruciferus 6468
Prodiplosis longifila 6840
Prokelisia marginata, parasitoids 6538
Pseudaulacaspis pentagona 8627
Quercus nigra, insect pests 10997
Reticulitermes 11491
 Rhopalocera 5402
 books 8171
Rhynchophorus cruentatus 9911
Scapteriscus 5159, 6499
 natural enemies 1519
Scapteriscus vicinus 6761
Schistocerca ceratiola 11381
Scirtothrips citri 6795
 Scolopendromorpha 2342
 Scolytidae 9962
Selenisa sueroides 7489
Solenopsis 6520
Solenopsis invicta 197, 3482, 4915
 soyabeans
 insect pests 11729
 Lepidoptera 6893
Spissistilus festinus 6897
Spodoptera frugiperda 4633
Tapinoma melanocephalum 4451
 Tephritidae 3080
Trichoplusia ni 7348
Uroleucon, natural enemies 4584
Utheisa ornatrix 7560
 water, entomopathogens 7126

Georgia

- Acrobasis nuxvorella* 4725
Acyrtosiphon pisum 6766
 pathogens 2818
Allonemobius fasciatus 3359
Anthonomus grandis 9882
 Aphididae, natural enemies 3774
 cotton, insect pests 2923-2924
Cydia caryana 7719
Elasmopalpus lignosellus 2667
 groundnuts, commodities, insect pests 11895
Helicoverpa zea 2932, 11726
 parasitoids 4856
 insecticides, persistence 10069
Lepidosaphes camelliae 4968
 maize
 commodities, insect pests 3052
 Lepidoptera 2624
Mayetiola destructor 2615, 9531, 10563-10564
Neacoryphus bicrucis 11505
Oracella acuta, parasitoids 11801
Panonychus ulmi 6991

USA cont.

Georgia cont.

- pecans, insects, predators 6802
Phyllonorycter blancardella 10702
Platynota idaeusalis 8604
Polistes annularis 10392
Pseudophilippia quaintancii 7936
Rhyacionia 10930, 10936
 Sesiidae 8875
Sitophilus zeamais 8829
 soil, mites 10353
Solenopsis 6515
 soyabeans, pest control 658
Spodoptera frugiperda, natural enemies 7608
 sweet potatoes, Coleoptera 1698
Thysanoptera 8634
Toumeyella pini, natural enemies 8839
Xyleborus atratus 9965

Hawaii

- Achaea janata*, ectoparasites 4533
Aleurotulus anthuricola 4964
Anomalochrysa maclachlani 9417
Bactrocera 3081, 8966, 11615
Bactrocera dorsalis 582, 3078
 biological control agents, introduction 1971
 carnations, pest control 9910
Ceratitis capitata 766, 3382, 4380, 4423, 4428, 6834, 7897
Clidemia hirta, biological control agents 11508
Coptotermes formosanus 8395, 9458
Megatrioza 2698
 pineapples, insects 3828
Plutella xylostella 2809
Pseudanaphothrips araucariae 9991
 sugarcane, reports 8182
 Tephritidae 3144, 4803, 5746, 11777
Theridion grallator 5458, 9412, 11819
 watermelons, arthropod pests 3866

Idaho

- Acyrtosiphon pisum*, predators 5805
Bangasternus orientalis 6630
Choristoneura occidentalis 6004, 7926
Cinara nigra 10962
Conophthorus 9942
Dictyna 8422
 forest trees, insect pests 11869-11870
Hypodryas gillettii 1757
Larix occidentalis, insect pests 6011
Lygus hesperus 4843, 7792, 11166
Pinus monticola, insect pests 6006
Pogonomyrmex owyheeii 2413
Rhopalosiphum maidis 9552
Sitona lineatus 2678
Tetanops myopaeformis 5839
Vespula germanica 7428

Illinois

- Acalymma vittatum* 7788
Anasa tristis 11711
 Aphididae 1421
Apion rostrum 4595
Apis mellifera, ectoparasites 1270
 Cicadellidae 11604
Diabrotica 2636, 11543
Empoasca fabae 4699
Eriophyes emarginatae 8877
 Heteroptera 9339
Hydraecia immanis 5624
Ostrinia nubilalis, pathogens 4654
Plagioderma versicolora 3010, 3034
Rhagoletis pomonella 543
 soil, insecticides, degradation 9097
 Tortricidae 3613

Indiana

- apples, insect pests, natural enemies 4746
 arthropod pests 7431
Cochylis hospes 7851
Diabrotica virgifera 7414
 entomology, history 8193
Epilachna varivestis 9809
 predators 5818

- USA cont.**
- Indiana cont.**
- forest trees, Coleoptera 821
Formicidae 7475
Melanaspis obscura 5974
Philaenus spumarius 8556
soil, pesticides, movement 8138
Vespidae 10451
- Iowa**
- Acyrtosiphon pisum* 2677
Agrotis ipsilon 3375, 3391, 8273, 9564, 10592, 11544
Chionaspis pinifoliae 7962
Cochylis hospes 7851
Diabrotica 9553
Diabrotica virgifera 2639, 11548
Drosophila 10992
Empoasca fabae 5406, 7699
fishes, insecticide residues 937
Noctuidae 9357
Ostrinia nubilalis 1456, 5617, 9569, 9571, 11539, 11547
Papaipema nebris 8494
Peridroma saucia 9633
Rhopalosiphum maidis 6717
soil, insecticides, degradation 9097
Thysanoptera 9556
- Kansas**
- Agrotis ipsilon* 3391
Cerambycidae 1193
Cicindela repanda 1313
Cochylis hospes 7851
Cryptolestes ferrugineus 6041
Cydia caryana 7719
Diatraea grandiosella 4638
Epicauta 10650
forests, arthropods 10015
grasses, insects 8528
Mayetiola destructor 7588
Melanoplus differentialis, pathogens 11948
Melanoplus spretus 6508
Ostrinia nubilalis 1454
Polistes annularis 2487
soil, invertebrates 7449
wheat
commodities
insect pests 10041
pest control 7104
- Kentucky**
- Acrosternum hilare* 9803
Buprestidae 11000
crops, insect pests 2638
Curculionidae 11610
Diatraea grandiosella 4638
Euschistus 5625, 8475
forest trees, Coleoptera 821
Hypera postica 4698
Hyphantria cunea 1235
Macrosiphum rosae 786
Magacicada 8923
Melanaspis obscura, parasitoids 5974
Nabis, parasitoids 10439
Parapediasia teterrella 10640
Plathypena scabra
natural enemies 5819
predators 8710
Plectrodera scalator 3984
Sitona hispidulus 2684
Trichoplusia ni 7348
Unaspis euonymi 5907, 10961
- Louisiana**
- Agrotis ipsilon* 3391, 8273
Anthonomus grandis 2925, 6982
Anticarsia gemmatilis 9806
Archips argyrosipilus, natural enemies 4017
Blissus leucopterus 7613, 9555
Chrysodeixis includens 10801
Contarinia acuta, natural enemies 4995
Coptotermes formosanus 8395, 10974
cotton, insect pests 2923, 10861
Diatraea saccharalis 9609
Heliothis virescens 8775, 8778
Isoptera 8961
maize, Lepidoptera 2624
Nephila clavipes 8381-8382
Noctuidae 2914, 5882
- USA cont.**
- Louisiana cont.**
- Noctuidae cont.
natural enemies 9807
Solenopsis invicta 362
Solenopsis subterranea 3487
Spodoptera frugiperda 6697, 7582
sugarcane, insects 6683
Thripidae 3940
- Maine**
- Apis mellifera*, pathogens 11271
Asclepias syriaca, pollinators 10430
Choristoneura fumiferana 1790, 7925
predators 7025-7026, 8845, 8905, 9949
Enoplognatha ovata 3575
ectoparasites 8359
Hymenoptera 6450
Miridae 11808
Misumena vatia 9435
prey 6564
Rhagoletis mendax 8563
- Maryland**
- Acartia tonsa* 8130
Asphondylia ilicicola, predators 11007
Cantharidae, pathogens 4091
Drosophila melanogaster 7708
Empoasca fabae 694
Formicidae 7047
groundwater, insecticide residues 10152
Isoptera 4548
Janus quercusae 2954
Leptinotarsa decemlineata 4903, 8740
parasitoids 3901, 4880
Liriomyza trifolii 4966
Lymantria dispar 1834, 4009, 10952
natural enemies 11824
parasitoids 3000, 11815
Megacyllene robiniae 9959
Megalonotus chiragrus sabulicolus 4589
Megastigmus floridanus 4969, 7074
Melanaspis obscura 5974
Neochlamisus platani, natural enemies 5016
Neolasioptera rostrata 3618
Ostrinia nubilalis 3667
Plagioderia versicolora 9996
Prodiplosis platani, natural enemies 1868
Robinia pseudoacacia, insect pests 5915
Stephanitis pyrioides 8814
Stiretrus anchorago 248
Xyleborus atratus 9965
- Massachusetts**
- apples
arthropod pests 8617
mites 10704
Brevicoryne brassicae 11698
parasitoids 613
Dendroctonus terebrans 6268
Hemileuca lucina, predators 3629
Lasius neoniger 192
Lepidoptera 9916
parasitoids 3872
Leptinotarsa decemlineata 5191, 6926-6927
parasitoids 6925
pathogens 4884
Lymantria dispar 3006, 5940, 9977, 11008
parasitoids 11810, 11815
pathogens 7959
Metzneria lappella, parasitoids 3619
Pineus 11813
Psallus lepidus 11808
Rhagoletis pomonella 3009, 5013, 5727, 6805
Tortricidae 8605
- Michigan**
- Abies balsamea*, insect pests 8854
Chymomyza amoena 3786, 10711
Coenosia tigrina 1708
Conophthorus resinosae 6010
- USA cont.**
- Michigan cont.**
- Danaus plexippus*, predators 4476
Delia antiqua 715, 8754
predators 11750
Elaphrothrips tuberculatus 9303
Empoasca fabae, natural enemies 9787
field crops, insect pests 8482
Leptinotarsa decemlineata, predators 10828
Myzus persicae 1607
Orthoptera 1222
Plagioderia versicolora 3010
Rhagoletis 1538, 4751, 11616
Rhagoletis pomonella 5727
Sesia spartani 14
Sphecinae 9427
Tortricidae 3613
Valgus hemipterus 3411
- Minnesota**
- Aceratagallia sanguinolenta* 10885
Acyrtosiphon pisum 1533
Aphididae 7696, 9833
Apis mellifera, ectoparasites 7497
barley, commodities, insect pests 11880
Carabidae 8361
Choristoneura fumiferana 4001
Cochylis hospes 4913, 7851
Danaus plexippus 1158
Empoasca fabae 11684
Epicauta pensylvanica 340
Hylurgopinus rufipes 8864
Lycaena hylus, parasitoids 10520
Ostrinia nubilalis 10586
stored products pests 7108
Trirhabda canadensis 11513
- Mississippi**
- Anthonomus grandis* 5881, 6969
Araneae 8376
Ataenius robustus 10491
birds, insecticide residues 8110
Cicindelidae 2362
cotton, insect pests, predators 1735
Helicoverpa zea 6891
Heliothis virescens 4927, 5883, 6968, 8769, 8778, 9878
insects, surveys 5378
Isoptera 4548, 8961
Janus quercusae 2954
Lygus lineolaris 6892
predators 1388, 1734, 8377
maize, Lepidoptera 2624, 7606
Misumena vatia, prey 8544
Noctuidae 2914, 8268
predators 9502
Papilio troilus 2941
Reticulitermes, pathogens 11480
Solenopsis 10427
Solenopsis richteri 197
Spodoptera frugiperda 8482, 9884, 10599
- Missouri**
- Agonum galvestonicum* 3604
Agrotis ipsilon 3391
Cerambycidae 1193
Cryptostigmata 9143
Diabrotica 4647
Diabrotica virgifera 9567
Helicoverpa zea 8490
maize, Lepidoptera 2624
Niesthrea louisianica 5551
Pseudanthonomus helvolus 3958
Pseudoxenus regalis 2956
Reuteria craigi 815
- Montana**
- Acrididae 3472, 4437, 9614
Carabidae 1525
Choristoneura occidentalis 1791
Chorthippus curtipennis, pathogens 6504
Cinara nigra 10962
Dendroctonus ponderosae 1788
Dendroctonus punctatus 8841
Dichelonyx vicina 2949
forest trees, arthropod pests 4027
forests, arthropods 10015
Formica obscuripes 8283
Hypodryas gillettii 1757
Larix occidentalis, insect pests 6011

USA cont.

Montana cont.

- Melanoplus sanguinipes* 6508
Rhopalosiphum maidis 9552
Stenopogon inquinatus 10346

Nebraska

- Diabrotica virgifera* 11545
Hyadaphis tataricae 3962
Lymantria dispar, parasitoids 11815
Ostrinia nubilalis 2631, 10591
Pinus ponderosa, insect pests 3003
Pogonomyrmex occidentalis 7476
 soil, insecticides, degradation 9097

Nevada

- forest trees, insect pests 11869-11870
 Hymenoptera 8355
Occidryas editha, predators 7332
Pogonomyrmex rugosus 198

New England, Gracillariidae 4024

New Hampshire

- apples, pest control 1560
Asaphidion flavipes 10365
Choristoneura fumiferana, predators 8845
Dichroscytus latifrons 11808
Hepialus gracilis, natural enemies 7023
Lymantria dispar 11008
Nicrophorus 11367
Pineus 11813

New Jersey

- Drosophilidae 10757
Leptinotarsa decemlineata 4883, 4903, 7833, 7839
Lymantria dispar 11008
 parasitoids 11815
Malacosoma americanum 9318
Megalonotus chiragrus sabulicolus 4589
 mushrooms
 Diptera 11690
 pests 5778
Platynota idaeusalis 8604
Spodoptera frugiperda 8497, 9568

New Mexico

- Acrididae 3472
Agelenopsis aperta 10442
Automeris zephyria 10983
Baccharis sarothroides, insect pests 1403
 Cerambycidae 1869
Graphognathus leucoloma 3738
Larrea tridentata, arthropods 10523
Ligurotettix 5008
Neolasioptera rostrata 3618
Pinus ponderosa, insect pests 5991
Pogonomyrmex barbatus 10397
Pogonomyrmex rugosus 2430
 soil arthropods 9322-9323
 Tortricidae 10515

New York

- apples
 arthropod pests 9688
 insecticides, deposition 4752
 pest control 1560
 Araneae 9413
 Arctiidae 108
Bolitotherus cornutus 5009
Brevicoryne brassicae, parasitoids 3854
Chaetocnema pulicaria 1450
 Cicadellidae 11794
Delia antiqua 8752
Dendroctonus valens 6268
Diabrotica barberi 8484-8485
 pathogens 1951
Empoasca fabae 6771
 Formicidae 10398
Heterocampa guttivitta 9937
Leptinotarsa decemlineata 2873, 8736
Lymantria dispar 1839, 11008
 parasitoids 11815
 maize, pest control 1453
Malacosoma americanum 4742
Megalonotus chiragrus sabulicolus 4589
 Miridae 11808
Oniscus asellus 1858
Ostrinia nubilalis 4641, 8698

USA cont.

New York cont.

- Panonychus ulmi* 2739, 4754, 5730
Pieris rapae 2318
 pathogens 6870
Pityogenes bidentatus 834
Polychrosis viteana 9666
 parasitoids 11623
 potatoes, pest control 8146
Pristiphora geniculata 8871
Rhagoletis pomonella 8606, 9683
Tachypompilus ferrugineus, prey 9406
 Tetranychidae 2737
Thrips tabaci 1623-1624
 Tortricidae 8605
Trichoplusia ni 7782

North Carolina

- Acrosternum hilare* 10860
Allonemobius fasciatus 3359
Apis mellifera, pathogens 10431
Conophthorus 9942
 cotton, insect pests 2923
 Curculionidae, pathogens 1931
Dendroctonus frontalis 7957, 11812
Diabrotica undecimpunctata 1455
 forest litter, arthropods 7015
 forest trees, insects 832
 forests, arthropods 833, 11817
Frankliniella occidentalis 10904
Helicoverpa zea 2839, 11724
Heliothis, parasitoids 727
 insecticides, nontarget effects 836
 insects, parasitoids 1312
Jaiysus wickhami 4946
Leptinotarsa decemlineata 5191
 maize, arthropods 7614
Myzus nicotianae 2933, 10873
Neopipilohmannia taeda 2975
Ostrinia nubilalis 7612
Phyllonorycter blancardella 10702
Phyllophaga, pathogens 1515
Platynota idaeusalis 8604
Rhagoletis mendax 8555
Rhyacionia frustrana 10931
 soil arthropods 2601
Thiona simplex 2955
Utetheisa ornatrix 7560

North Dakota

- Cochylis hospes* 4913, 7851
 Curculionoidea 11393
Cylindrocopturus adspersus, parasitoids 2899
Danaus plexippus 331
Melanoplus spretus 6508
 soil, insecticides, degradation 9097

Ohio

- Agonum galvestonicum* 3604
 Aphididae, parasitoids 5789
 Carabidae 10963
 Cicadellidae 465
Cochylis hospes 7851
Delia platura 9801
Empoasca fabae 694
Enaphalodes rufulus 1780
 forest trees, arthropods 811
Gleditsia triacanthos, Hemiptera 10951
Glischrochilus quadrisignatus 5725
Homadula anisocentra 6313
 Lepidoptera 146
Macrosiphum rosae 786
Magicalada 126
Metzneria lappella, parasitoids 3619
Papaipema nebris 8489
Papilio glaucus 7952
Philaenus spumarius 8556
Pieris virginiensis 3631, 10764
Plutella xylostella 8085
Popillia japonica 2841
 soybeans, pests 5821
Vitacea polistiformis 11630

Oklahoma

- Anasa tristis* 10781
 cabbages, insect pests 9766
Conioscinella nuda 5678
Cydia caryana 7719
Diatraea grandiosella 4638
Heliothis virescens 8778
Hypera postica 2687

USA cont.

Oklahoma cont.

- Hypera postica* cont.
 natural enemies 11608
 pathogens 11606
Jadera haematoloma 5950
 Noctuidae, parasitoids 6749
 Pselaphidae 10231
Reticulitermes flavipes 8576

Oregon

- Apis mellifera*, ectoparasites 1267, 10473
 apples, orchards, predatory mites 9685
Bangasternus orientalis 6630
Bibio xanthopus 8530
Cacopsylla pyricola 8623-8624
Caenoccephus aldrichi 1402
 Chironomidae 11045
Chrysoteuchia topiaria 8529
Cimberis turbans 5261
Cinara nigra 10962
Cochylis hospes 7851
Cydia pomonella 2745
Eucosma sonomana 5973
 forest trees, insect pests 4006
 forests, arthropods 1865, 10015
Lepesoma bakeri 10678
Lymantria dispar 7947
Metzneria lappella, parasitoids 3619
 Noctuidae, parasitoids 9634
Orgyia pseudotsugata, predators 3988
 pears, arthropod pests 2748
Phryganidia californica, parasitoids 3998
Polymerus castilleja 5560
Pseudotsuga menziesii
 Hemiptera 1776
 insect pests 4021, 5994
Rhagoletis pomonella 11645
Rhyacionia zozana
 natural enemies 1866
 parasitoids 9976
Tetranychus urticae 2746, 6819
Vespa germanica 7428

Pennsylvania

- Apis mellifera*, ectoparasites 6575
 apples, arthropod pests 8585, 9688
 Araneae 11592
 Cantharidae, pathogens 4091
Carphoborus bicornus 9962
 Cicadellidae 11794
Deroceras reticulatum 327
Diabrotica 9550
Empoasca fabae 6772
Eurosta solidaginis 3616, 10516
 natural enemies 7568
 forests, insects 9966
 groundwater, insecticide residues 6204
Leptinotarsa decemlineata 9835
Leptophya mutica 1758
Lycoriella mali, insecticide resistance 2792
Lymantria dispar 8900, 9933, 11008
 parasitoids 11815
Megalonotus chiragrus sabulicolus 4589
Panonychus ulmi 8607-8608
Platynota idaeusalis 3795, 6813, 6815, 8604, 9686, 11641
Rhopalus tigrinus 335
 slugs 356
 soil arthropods 8538
Thiona simplex 2955

Rhode Island, *Megalonotus chiragrus sabulicolus* 4589

South Carolina

- Aphididae 11633
Chrysodeixis includens, parasitoids 4857
Coptotermes formosanus 2526
 cotton, insect pests 5887
Cryptolestes dybasi 3408
Cryptolestes ferrugineus, pathogens 6037
Diabrotica 11361
Diaphania nitidalis 6877

- USA cont.**
South Carolina cont.
Helicoverpa zea 455
Hemiptera 2561
Isoptera 4548
Lepidoptera, parasitoids 10802
Litoprosopus futilis 5044
Mayetiola destructor 10563
Noctuidae 6981, 8268
Orthoptera 10644
peaches, arthropods 6824
Peucetia viridans, predators 8363
Phyllonorycter blaucardella 10702
Plodia interpunctella 10074
Rhyacionia 10936
South Dakota
Acanthoscelides perforatus, parasitoids 8784
Acrididae 9627
Cochylis hospes 7851
Contarinia watti 10645
Diabrotica virgifera 1451, 8474, 10588, 10595, 11546
Tennessee
Agonum galvestonicum 3604
forest trees, Coleoptera 821
Macrosiphum rosae 786
maize, Lepidoptera 2624
Reticulitermes flavipes 7538
Rhopalocera 1183
Thiona simplex 2955
Xyleborus atratus 9965
Texas
Acaricoris ignotus 5001
Acrobasis nuxvorella 4725
Agrotis ipsilon 3391, 8273
Amphicerus bicaudatus 8566
Anastrepha ludens 9028
Anthonomus grandis 4937, 6975, 7866
natural enemies 6978
Aphididae, predators 2906
Aphis gossypii 7870
Araneae 8777
prey 3889
Atta texana 6518, 10943
Battus philenor 7409, 10333-10334
Blissus insularis 11593
Cochylis hospes 7851
Contarinia sorghicola 8523
cotton, insect pests 2923, 4939, 5885-5886, 9873
Dendroctonus frontalis 7028, 11825
Dendroctonus terebrans 8874
Diatraea grandiosella 4638, 4643, 9558, 9570
natural enemies 9566
pathogens 11551
Diuraphis noxia 5603
parasitoids 2612
Elasmopalpus lignosellus 4868
Eudiagogus 7553
Formicidae 8324
Frankliniella occidentalis 7868
Graphognathus leucoloma 3738
Gryllus integer 6412
Helicoverpa zea 2917, 5168
Heliothis phloxiphaga 3291
Heliothis virescens 2915, 2918, 4927, 8778
insecticide resistance 2921
insects, parasitoids 8425
Itame varadaria 5557
Lissorhoptrus oryzophilus 3695
Listronotus texanus 2861
Mayetiola destructor 10565
Neolasiotera rostrata 3618
Noctuidae 2914, 5626, 9355
parasitoids 6749
Oebalus pugnax 9597
Oligonychus pratensis 10593
Oncideres pustulatus 5956
Ophraella 11509
Pemphigus populitransversus 4826
pesticides, registration 9487
Pinus taeda, Coleoptera 8898
Polistes annularis 8220
Psallus seriatus 5890, 7863
predators 4925
Pyrilidae, parasitoids 5584
Schizaphis graminum 2665
- USA cont.**
Texas cont.
Sipha flava 10632
Solenopsis 2409, 3487
Solenopsis invicta 203-204, 6519, 10394, 10412, 11428
predators 2412, 9393
prey 7477
Stiretrus anchorago, prey 3556
Thripidae 6905, 9524
Thrips tabaci 5857
Thysanoptera 6940
Trichacis crossi 1337
Trirhabda bacharidis 3623
vertebrates, insecticide residues 9088
Utah
Colorado, *Anabrus simplex*, predators 7500
Dendroctonus ponderosae 5924
Euura exiguae 5033
forest trees, insect pests 11869-11870
grasslands, insects 7670
Miridae, predators 3729
Pemphigus 4983
Pemphigus betae 828
Picea engelmannii, Lepidoptera 3036
pollinators 3492
Rhagoletis pomonella 4733, 7738, 8626
Vermont
Danaus plexippus 331
Formicidae 10398
Hepialus gracilis, natural enemies 7023
Heterocampa guttivitta 9937
Lymantria dispar 11008
parasitoids 11815
Miridae 11808
Pineus 11813
Virginia
Acer pensylvanicum, insect pests 7911
Allonemobius fasciatus 3359
Alphitobius diaperinus 7467
apples, arthropod pests 9688
broccoli, Lepidoptera, parasitoids 1620
cabbages, Lepidoptera 4834
Calligrapha californica 9500
Cepaea nemoralis 5542
Chrysomela knabi 8842
Chymomyza amoena 3786
Colaspis favosa 11796
Danaus plexippus 331
Formicidae 4008
Helicoverpa zea 11726
Hormaphis hamamelidis 7938
Janus quercusae 2954
Leptinotarsa decemlineata 4887, 8746, 10827
pathogens 4885
Lophocampa caryae 8920
Lymantria dispar 10013
parasitoids 11815
Megalonotus chiragrus sabulicolus 4589
Microrhopala xerene 9914
Odontota dorsalis 8889
Phaeogenes nigridens, parasitoids 4970
Phaseolus vulgaris, insect pests 1639
Plagiodera versicolora 3034
Popillia japonica 2714
Thyridopteryx ephemeraeformis 4996
parasitoids 3008, 8899
Trichoplusia ni 4830
Trichosirocalus horridus 9496
Xyleborus atratus 9965
Washington
Acyrtosiphon pisum, predators 5805
Aphididae 3792, 10635, 10886
Aphis varians, predators 3614
Apis mellifera, ectoparasites 4490
Bangasternus orientalis 6630
Brachycorynella asparagi 1608
- USA cont.**
Washington cont.
Cacopsylla pyricola 8623-8624, 9691
Choristoneura occidentalis 1772
Cinara nigra 10962
Coleoptera 9960
Cryptostigmata 9143
Cydia pomonella 555, 9684
grapes, pest control 2709
Leptinotarsa decemlineata 9287
lucerne, pollinators 480
Lygus 2680
Lygus hesperus 4843, 7792
Lymantria dispar 7947
Metaseiulus occidentalis 2693
Metzneria lappella, parasitoids 3619
Microdon xanthopilis 6276
Papilio 4345
Papilio zelicaon 5568
Pegomya hyperparasitica 3609-3610
Phyllonorycter elmaella, parasitoids 9687
Pissodes strobi 9998
small fruits, pest control 5698
Tetranychus urticae 9654
Vespula germanica 7428
wildlife, insecticides, effects 5204
Yponomeuta malinellus 7736
West Virginia
apples, arthropod pests 9688
Lyonetia speculella 9689
Megalonotus chiragrus sabulicolus 4589
Meganola spodia 11795
Platynota idaeusalis 6815, 8604
Polia latex 5943
Xyleborus atratus 9965
Wisconsin
Chilocorus stigma, ectoparasites 4470
Curculionidae 5949, 8896
Eriophyes emarginata 8877
Hydraecia immanis 5624
Hylobius, parasitoids 10984
Ips pini, predators 10955
Lotus corniculatus, insect pests 1528
Miridae 9628
Papilio glaucus 2319, 7952
Pinus resinosa, insect pests 11793
Rhagoletis 1538
Wyoming
Acrididae 3472, 8660
Carabidae, predators 4493
Carabus nemoralis 7521
Cerambycidae 1193
Cinara nigra 10962
Eleodes 2331, 8277
Eumerus 5836
forest trees, insect pests 11869-11870
Gastropoda 6620
Hypodryas gillettii 1757
insects, population dynamics, conferences 10210
Melanoplus sanguinipes 6508
Pogonomyrmex owyheeii 199
sugarbeet, pest control 9823
weeds
arthropods 6654
litter, arthropods 6653
Uscana caryedoni
biology 5831
Congo 5831
control, *Caryedon serratus*, evaluation 5831
hosts, *Caryedon* 5831
USSR
Acrididae 3478
Acyrtosiphon pisum 2823
Adalia bipunctata 3544
Aenigmaphyscus paluster 4539
Agriades pyrenaicus 3634
Agriotes sputator 923
Agrotis crassa 11603
Agrotis segetum 1166, 8540
natural enemies 2904
parasitoids 2929

USSR cont.

- Aleyrodidae 2367
Amblyseius tuvinensis 5500
Ambrosia, natural enemies 6659, 10194
Anthonomus rubi 501
Apamea anceps 384, 2619, 12011
Aphididae 702, 3116, 10675
 natural enemies 213
 predators 215, 6115-6116
Aphis 3418
 predators 3903
Aporia crataegi 3131
apples
 arthropods 5738
 pest control 8599
Archips 6822
Archips podanus 2725
Archips rosanus 532
arthropod pests
 apples 549
 forecasting 2385
 maps 6457-6458
Aschitus 3515
Aspidiotus destructor 4960
Atomaria linearis 677
Auchenorrhyncha 2345
barley, pest control 398
biological control 6117
 books 3220
 conferences 4244
 greenhouse crops, arthropod pests 4156
 reviews 273
Bombyx 10695
Bothynoderes punctiventris 2857-2858, 8730
Bracon 271
Braconidae 3560
Bregmatothrips bournieri 4683
Bruchus pisorum 2824, 3877
cabbages
 Lepidoptera 8681
 natural enemies 608, 2804
 pest control 8682
Calambus 4251
Carabidae 303, 2377, 10994, 11772
 prey 4537
Cassida rubiginosa 11510
Cecidophyopsis ribis 10676, 10687
Cerambycidae 3042
cereals
 arthropod pests, natural enemies 901
 insect pests 1427, 4615
 pest control 8456
Chamaemyiidae 2514
Cheyletidae 12017
Chilocorus kuwanae
 natural enemies 6015
 parasitoids 6015
Chloropidae 394
Chorthippus biguttulus 11414
Chromatomyia horticola 6456
Chromoderus affinis 5835
Chrysoperla carnea, parasitoids 274
Cicadulina mbila 6455
Citrus
 insect pests, natural enemies 567
 orchards, soil arthropods 3813
Coccinellidae, parasitoids 276
Coccoidea 524, 1752, 2695
Coleoptera 10198
Collembola 5381
Cossonus rotundicollis 8908
cotton
 insect pests 2903
 predators 4469
 pest control 740, 2902
crops
 insect pests 589
 insects 8412
 Lepidoptera 2721
 monitoring 916
 pest control 8992
Curculio nucum 3773
Curculionidae 496, 674
Cydia funebrana 561, 2749
 parasitoids 2728
Cydia molesta 4729
Cydia pomonella 534, 546-547, 558, 1553, 2730, 7239

USSR cont.

- Cydia pomonella* cont.
 natural enemies 545
 parasitoids 544, 1555, 2743
Delia radicum 2328
 predators 607
Dendrolimus pini, natural enemies 3043
Dendrolimus sibiricus 1800, 4985
deserts, arthropods 9324
Diaspididae 2696
Diphyllaphis mordwilko 2979
Diprion pini, parasitoids 3045
Diptera
 books 12022-12023
 parasitoids 11466
 economic thresholds, insect pests 918
Elateridae 2374
Enarmonia formosana 551
Encyrtidae 4540
Entomophthorales, books 12027
Entomoscelis adonidis 5359
Eotetranychus pruni, predators 2512
Epiblema uddmanniana 507
Eriococcus williamsi 2937
Eriocranidae 3046
Eriophyes pyri 1567
Eupithecia 2376, 2378
Eupoecilia ambiguella 6454
Eurygaster integriceps 373, 377-380, 3122, 3660, 8463
 eld crops
 insect pests, parasitoids 2587
 pest resistance, books 12024
forest trees, insect pests 810, 1809
Forficula 9738
fruit trees
 arthropod pests, natural enemies 537
 insect pests, parasitoids 2727, 4730
 pest control 531, 533, 538, 4727
fruits
 arthropod pests, natural enemies 526
 insect pests
 parasitoids 2723
 pathogens 3113
 Lepidoptera 525, 527, 530
 pest control 484
 garlic, arthropod pests 720
Gastroidea polygoni 2575
Geometridae, parasitoids 4029
Gonioctena fornicata 5691
gooseberries, Hemiptera 10677
grapes, insect pests 1550
greenhouse crops, pest control 1599
Gryllotalpa africana, pathogens 6062
Gryon 11465
Helicoverpa armigera 739, 3833, 3941, 6307
 natural enemies 2455
 parasitoids 173
Heliethinae 3263
Hemiptera 3924, 4028
Hymenoptera, books 1010
Hypera 6763
Hypera postica, pathogens 7686
Hyphantria cunea 485, 3393, 9021
 parasitoids 4538
 predators 3793
insect pests
 economic thresholds 920
 determination 919
 maps 6460
insecticides
 information 842
 storage 943
 usage 2027
insects
 ecosystems 2341
 fauna 4398
 rearing techniques 11408
 trapping 2399, 3460
invertebrates
 pollution, effects 5377
 trapping 2400
Ips typographus 7064
Kaltenbachia strobil, parasitoids 5999
Laphriinae 4416
legumes, pest control 625-626

USSR cont.

- Lepidoptera 902, 921, 1972, 5374, 5794
 books 1006, 10187
Lepidosaphes ulmi 792
Leptinotarsa decemlineata 701, 722, 903, 3146, 5849, 8764
 predators 696
Lixus subtilis 676
Lobesia botrana 522, 2708, 2716
Loxostege sticticalis 322
 parasitoids 2552
lucerne, insect pests 478
Lymantria dispar 793
Lymantria monacha 3041
maize
 insects 1457
 pest control 401
man
 insecticides, effects 6195
 pesticides, effects 9070
Mesostigmata, books 2094
millets, pest control 419
museum specimens, insect pests 1890
Myrmica 2433
Myrmica rubra 6517
Myzus persicae 8787
 parasitoids 6122
Myzus varians 562
Nematus 512
 parasitoids 4734
Neodiprion sertifer 1832
Noctuidae 741, 3139
 books 10201
 parasitoids 11754
oats, pest control 395
orchards
 arthropods 1554
 Hymenoptera 5724
 insect pests, parasitoids 4728
 insecticides, persistence 3780
ornamental plants, pest control 12028
Orsodacne cerasi 11506
Orthoptera 3471
Oscinella pusilla 10582
Ostrinia 4655
Oulema 381
Oulema melanopus 4621
Panolis flammea 3044
Panonychus citri, predators 4783
Panonychus ulmi 2744
Paranthrene tabaniformis 7406
Paraphytomyza luteoscutellata 8806
peas
 insect pests 644, 1646
 natural enemies 649
Pemphigus fuscicornis 675, 4871, 7814
Peridea anceps 3972
 pest control 909
 microbial pesticides 1019, 3124
pesticides
 information 3132
 residues 985
 toxicology, information 9046
pheromones, books 1007
Philonthini 3421
Phorodon humuli 350
Phthorimaea operculella 1679, 2863, 6916
 natural enemies 2453
Phyllonorycter populifoliella 4991
 control, insecticides 6014
Pinus, Coleoptera 5074
pistachios, Lepidoptera 4726
Plagiolepis 3490
Planchonia arabis, parasitoids 782
Planococcus citri 521
plants, insecticide residues 3205
Plesiocoris rugicollis 511
pomegranates, insect pests 3822
Porphyrophora hamelii 2541
potatoes
 insect pests 5850
 insecticide residues 4210
 insects 1696
 pest control 703, 2862
 books 12025
Procalvolia, hosts 5455
Prostigmata 1331
Pseudococcus comstocki 529, 6460
Psylla emeljanovi 5075

- USSR cont.**
Pulvinaria 514
Quadraspidiotus perniciosus 8548, 8580
Quercus, insect pests 1802
rape, insect pests 6865
raspberries, Coleoptera 506
Rheumaptera hastata 5709
Rhopalocera 141
rice, pest control 427
rye, pest control 396
Schizaphis graminum 2646, 8511
Scolytidae 2948
natural enemies 7065
Scolytus 4990, 7017
Sitobion avenae, predators 3661
Smerinthus kindermanni 6013
soil, insecticide residues 3205, 4210
soil arthropods 1171
soil invertebrates 3420
Spodoptera exigua 922
stored products pests 8934
quarantine 869
strawberries, pest control 7715
sugarbeet
Coleoptera, natural enemies 2856
insect pests 8313
reviews 2860
pest control 678, 3897-3898
Tarsonemina 9542
Tenebrionidae 9286
Tetranychidae 2375
predators 5694, 11643
Tetranychus 588
Tetranychus turkestanii 5876
Tetranychus urticae, predators 502
Tetrix fuliginosa 3367
Thrips tabaci, predators 11706
Tineidae, books 11253
tomatoes
Hemiptera 728
insecticide residues 7834
Tortricidae 528, 1768, 2228, 6821
Tortrix viridana 1803
Trialeurodes vaporariorum 326, 587, 624, 723, 729, 2787
parasitoids 1277, 3494, 5775, 11687
Trichogramma 171-172, 216, 904-905, 908, 1288
Trichomasthus 6591
vegetables
pest control, books 12026
pests, books 6226
viral insecticides, pest control, reviews 10082
Viteus vitifoliae 516, 11628
wheat
insect pests 382, 2621, 5607, 8464, 10556
insects 2618
pest control 2600
woody plants, pest control 4992
Yponomeuta, parasitoids 2720
Yponomeuta malinellus, parasitoids 550, 2722
Zabrus tenebrioides 6703
Utetheisa ornatrix
biochemistry, alkaloids 7560
Crotalaria, USA 7560
Utetheisa pulchella
biology 9887
sunn hemp, India 9887
cis-Vaccenyl acetate, effects, *Drosophila melanogaster* 8251
Vaccinium, *Althaeus folkertsi* 3607
Vaccinium angustifolium
extracts, attractants, *Rhagoletis mendax* 508
Hemadas nubilipennis 7723
galls 5710
Vaccinium myrtillus (see Bilberries)
Vairimorpha
hosts
Diadegma semiclausum 1612
insects 1640, 7126
Plutella xylostella 1612
Vairimorpha necatrix
culture techniques 7146
hosts
Helicoverpa zea, cell lines 7146
Spodoptera frugiperda 11919
Vairimorpha necatrix cont.
hosts cont.
Trichoplusia ni 8977
Valanga irregularis, physiology, sense organs 3465
Valentinia, taxonomy, synonyms, of *Blas-tobasis* 5393
Valentinia glandulella, taxonomy, to *Blas-tobasis* 5393
Valeriana officialis
Macrosiphum rosae, German Federal Republic 9918
pollen, Formicidae, germination 9924
Valeric acid
attractants
Delia antiqua 716, 5855
Oryzaephilus 8153
repellents, *Tenebrio molitor* 7379
Valgus hemipterus, distribution, Michigan 3411
Valine, kairomones, *Ascogaster reticulata* 234
Vamidithion (*O,O*-dimethyl *S*-[2-[[1-methyl-2-(methylamino)-2-oxoethyl]thio]ethyl]phosphorothioate)
control, *Aceria guerreronis* 3759
residues, food 1023
Vanduzeeia arquata
Formica subsericea, interactions 5915
Robinia pseudoacacia, Maryland 5915
Vanessa annabella
California 2151
evolution 2151
Vanessa cardui (see *Cynthia cardui*)
Vanessa carye (see *Cynthia carye*)
Vanessa virginiensis
California 2151
evolution 2151
Vanilla, *Baeturia maddisoni*, Oceania 10239
Vanillic acid, antifeedants, *Locusta migratoria* 9067
Vanonus uniformis
Liquidambar styraciflua 11816
taxonomy, new species 11816
Vanuatu, Scarabaeidae 11596
Vaporthrin (see Empenthrin)
Varoutest, effects, *Apis mellifera* 6523
Varroa
Argentina 1328
control 1254
acaricides 6528, 7492
hosts, *Apis mellifera* 6528, 7287, 7490, 7492-7495
Melissococcus, interactions 1328
North America 7287
taxonomy, synonyms, *Eugarroa* 5439
Varroa jacobsoni
acaricides, toxicity 10474
Albania 259
biology 1237, 1244, 1247, 1263-1264
development 5442
phenology 1258
reproduction 238, 1250, 6586
Brazil 1262
control 1246, 1256, 2507, 5443, 7524
acaricides 911, 1240, 1245, 1248-1250, 1253, 1255, 1325-1327, 3536, 6524, 6527, 10479, 11474
insecticides 1324
integrated control 1252
diets 1265
distribution 1241
USA 6587
Europe 1246
Florida 7491, 10474
German Federal Republic 1262
Hafnia alvei, transmission 1261
hosts
Apis 6587
Apis cerana 1257
Apis mellifera 238, 259, 911, 1238, 1240-1241, 1244, 1248-1250, 1252-1253, 1258-1261, 1264, 1324, 1327, 2507, 3536, 3548, 4464, 4466, 5441-5442, 6524, 6586, 7491, 7524, 8343, 10429, 10432, 10474, 10478-10479, 11474
Varroa jacobsoni cont.
insect viruses, transmission 10478
Israel 1255-1256
Italy 3536, 7524
Korea Republic 1253
microorganisms, interactions 1262
morphology 1237, 1239, 1264, 5439, 8343
sense organs 6569
sensilla 3510
pathogens 10478
physiology, development 4294, 5482
Poland 11474
rearing techniques 1265
sampling 10474
Switzerland 2507
taxonomy 6587
Varroidae, taxonomy 4294
Varroan T-1, control, *Varroa jacobsoni* 6527
Vasates lycopersici (see *Aculops lycopersici*)
Vateria indica, oils, toxicity, wheat, commodities, insect pests 5099
Vavraia
control, *Lymantria dispar* 1834, 4009
hosts, insects 7126
Vectors
pesticides, effects 6239
plant pathogens, detection 11899
research, books 12019
Vegetable marrows (see *Cucurbita maxima*; *Cucurbita moschata*; *Cucurbita pepo*)
Vegetables
Africa, books 2091
Agrotis segetum, Denmark 3832
Aleyrodidae
conferences 997
Iraq 4529
Aphididae
China 5771
India 3573
Jordan 10366
arthropod pests 9131
Cape Verde 151
control 5237
biological control 9024, 12026
pesticides 11115-11116
German Democratic Republic 910, 3835
India 12021
quarantine, Chile 5231
Singapore 5248
USSR 12026
arthropods, Netherlands 3145
Athalia, Japan 1026
Bactrocera dorsalis 6455
Belgium, reports 10219
Bemisia tabaci, Turkey 1736
books 2089
commodities
insecticides, residues 8117
pesticides, residues 7082
Cornuaspis cupressi 8804
Cylindrothorax 1024
Delia 2785
Diptera, UK 4808
fields, Syrphidae, UK 4808
Frankliniella occidentalis
Norway 7157
Switzerland 5774
Gryllotalpidae, Brazil 4658
habitats, beneficial insects, China 4805
insect pests
China 4809
control
biological control 4155
integrated control 4809
microbial pesticides 589
Italy 2556, 10220
monitoring 4238
Nigeria 593
plant extracts, effects 5234
USSR 589
insecticides, residues, detection 9089
insects, Texas 3556
Lepidoptera, China 4805
Limax marginatus, Iraq 4565
Liriomyza, Netherlands 4536
Noctuidae 8709

Vegetables cont.

- Noctuidae cont.
 Florida 6858
 German Democratic Republic 10749
 pest control 946, 1964, 2089, 2091, 3830, 4240, 10203, 10219
 Bangladesh 6854
 Belgium 4236
 bibliographies 2082
 Europe 5161
 Florida 12018
 German Federal Republic 5182, 8070, 10101
 Israel 4806-4807, 11682
 Netherlands 1014
 nontarget effects 9070
 reviews 590-591
 Sweden 3120
 Switzerland 3894
 pests
 Finland 9486
 USSR, books 6226
 research
 Nova Scotia, reports 10218
 South East Asia, conferences 10203
 Sarawak, reports 7299
 snails, Egypt 10747
Spodoptera litura, India 6984, 8659
 Tetranychidae
 China 4957
 USSR 2375
Thrips palmi, Martinique 10751
 Thysanoptera, German Federal Republic 3836
 tropics, reports 5246
Vegetation, effects, beneficial insects, reviews 9434
Velocitermes velox
 physiology, secretions 3578
 secretions, toxicity, *Musca domestica* 3578
Velvet tobacco mottle sobemovirus, vectors, *Cyrtopeltis nicotianae* 8785
Vendex (see Fenbutatin oxide)
Venezuela
Anastrepha 5765
Anastrepha serpentina 4711
Anastrepha striata 4798
Annona, insect pests 9734
 Aphididae 4676
Argentinorhynchus bennetti 6638
Argentinorhynchus minimus 7552
 Bruchidae 3083
 Chrysomelidae 9788-9789
Empoasca kraemeri 636-638
Graminella barinasensis 7673
Melanagromyza amaranthi 6648
Microlarinus lypiformis 8429
Peregrinus maidis 9563
Scrobipalopsis solanivora 691
Sipha flava 3724
 soil, insecticide residues 11233
Spodoptera frugiperda 9562
 parasitoids 9561
 tomatoes, Lepidoptera 5860
Venilia liberta
 biology 1331
 USSR 1331
Venoms
Apanteles kariyai 5302
Campoletis sonorensis 8371
Chelonus, proteins 7502
Delta conoideus 2182
 Hymenoptera 1988
Tetramorium caespitum, effects, *Schistocerca gregaria* 2230
 Vespidae 1285
 biochemistry 10433
Verbascum thapsus
Campylomma verbasci, British Columbia 8587
Thrips nigropilosus, New Zealand 8420
Verbena, *Tyrophagus longior*, UK 8812
cis-Verbenol
 attractants, *Dendroctonus ponderosae* 2212
 mixtures
 attractants, *Ips typographus* 2984, 9982

cis-Verbenol cont.

- mixtures cont.
 control, *Orthotomicus erosus* 2950
 pheromones, *Ips typographus* 7064
 pheromones
Ips paraconfusus 131
Ips typographus 3025

trans-Verbenol

- attractants, *Dendroctonus ponderosae* 2212, 5036
 pheromones, *Dendroctonus ponderosae* 8236

Verbenone

- attractants, *Dendroctonus ponderosae* 2212
 inhibitors, *Tomicus piniperda* 5037
 mixtures, attractants, *Ips typographus* 2984
 pheromones, *Dendroctonus ponderosae* 8236

(S)-Verbenone, mixtures, control, *Dendroctonus frontalis* 11825**Veromessor pergandei**

- Arizona 4458
 biology 4458, 10192
 behaviour 3484
 California 9384
 ecology, competition 9384
 food plants 4458
 genetics, population genetics 2425
 USA 3484

Veronica

- Athalia*, Japan 1026
Myzus cerasi, Europe 9694

Veronica persica

- Aphis gossypii* 7562
 Japan 1374

Vertebrates

- insecticides, metabolism 5195
 organophosphorus insecticides, toxicity 11211
 pentachlorophenol, residues 3447
 prey

- Antheraea mylitta* 10958
Asphondylia ilicicola 11007

Verticillidiella wagneri, vectors, Coleoptera 5064**Verticillium**

- hosts, fruits, insect pests 3113
 soil, Finland 6099

Verticillium albo-atrum, vectors, insects 2683, 10647**Verticillium lecanii**

- control
 Aphididae 775
Aphis gossypii 4967
Coccus viridis 8796, 9898
 greenhouse crops, arthropod pests 5862

fungicides, inhibitors 9898**hosts**

- Aphididae 1948, 9523
Cydia pomonella 8610
Holotrichia consanguinea 3683
 invertebrates 8850
Melanoplus 1221
Sitobion avenae 2604
Trialeurodes vaporariorum 3100, 5138
Zyginidia pullula 3672

- mixtures, control, *Coccus viridis* 9898
 pest control 1966, 3105

properties 4096**toxins** 3105**Vesiculaphis pruni**

- India 3746
Prunus cornuta, India 3746
 taxonomy, new species 3746

Vespa

- distribution, Indiana 10451
 food, man 1355
 taxonomy 10451

Vespa analis, venoms 1285**Vespa bicolor**, prey, *Hypocla subsatura* 342**Vespa crabro**

- biology, behaviour 5463
 distribution, Europe 6541
 ecology, habitats 2493
 food 5463
 prey, insects 5463

Vespa crabro cont.

- UK 2493, 5463

Vespa mandarinia, venoms 1285**Vespa orientalis**

- physiology, secretions 3342
 trapping 2402
Vigna radiata, fields, India 4864

Vespa simillima xanthoptera

- biology
 behaviour 9439
 thermoregulation 120
 Japan 120, 9439

Vespa tropica, venoms 1285**Vespa xanthoptera**, venoms 1285**Vespidae**

- Ammi visnaga*, habitats, California 6642
 biology 10189
 Brazil 6567
 evolution 6, 10189
 forests, German Federal Republic 1818
 Israel, books 1173
 mites, interactions 7515
 nests, preservation 4432
 parasitoids 3531
 prey
 crops, insect pests 6567
Uresiphita reversalis 5550
 venoms, biochemistry 10433

Vespiniae

- biology
 behaviour 11263
 books 11263

Vespoidea

- ecology 1329
 urban areas, Poland 1329

Vespula

- Aralia hispida*, pollination 6450
 biology, behaviour 6450, 11366
Bombus, interactions 6450
 distribution, Indiana 10451
 Maine 6450
 taxonomy 10451

Vespula germanica

- biology, behaviour 2308, 7428
 distribution, North America 7428
 ecology, habitats 2493
 German Federal Republic 6613
 pathogens, isolation 6613
 UK 2493

venoms, toxicity, *Manduca sexta* 1988**Vespula lewisi**, venoms 1285**Vespula pensylvanica**

- Colorado 10438
 pathogens 5132
 prey, Noctuidae 10438

Vespula rufa

- ecology, habitats 2493
 predators 5463
 UK 2493, 5463

Vespula vulgaris

- ecology, habitats 2493
 pheromones 4311
 physiology
 nervous system 4321
 sense organs 11323
 UK 2493

Vibidia duodecimguttata

- apples, orchards, China 2732
 control, plant pathogens 2732

Vibrissina turrita**hosts**

- Arge ochropus* 4516
Athalia rosae 2466
 Italy 4516
 Japan 2466

Viburnum, *Enchenopa binotata* complex, USA 5955**Viburnum tinus**

- Aleurotuba jelinekii*, UK 7035
 orchards, *Amblyseius victoriensis*, New South Wales 8631

Vicia, *Tricholaba* 4260**Vicia angustifolia** (see *V. sativa* subsp. *nigra*)**Vicia angustifolia subsp. segetalis** (see *V. sativa* subsp. *nigra*)**Vicia faba**

- Acyrtosiphon pisum* 2382, 4844, 7793, 9217
Agonoscelis versicolor, resistance 8693

***Vicia faba* cont.**

- Aphididae 5770
 - China 10787
 - Hungary 8446
 - India 5803
 - Syria 7790
- Aphis craccivora* 5802, 6883
- Aphis fabae* 9719
 - German Democratic Republic 3237
 - German Federal Republic 1282
 - resistance 9797
 - varietal susceptibility 1635
 - yield losses 627
- Apion arrogans*, Syria 5804
- Bruchidae, Hungary 9782
- Bruchus dentipes* 3870
 - resistance 3871
- commodities
 - Bruchidae 8969
 - Bruchus dentipes* 3870
 - Bruchus rufimanus*, damage 8970
 - Callosobruchus chinensis* 1917
 - Helicoverpa armigera* 7120
- Empoasca fabae* 8541-8542, 10649
- Euscelidius variegatus* 7791
- Eyprepocnemis plorans* 190
- fields
 - beneficial insects, Finland 10577
 - Coccinella septempunctata*, German Federal Republic 1282
 - Ichneumonidae, Massachusetts 3872
 - Tydeus fabae*, Egypt 1029
- insect pests
 - Finland 1440
 - Guatemala 1636
- insecticides, effects 3195
- intercropping, oats, pest control 1440
- Megoura viciae* 6354
- Mocis latipes*, America 6459
- Netherlands, books 12016
- Ophiomyia centrosematis* 2833
- pest control 12016
 - German Federal Republic 7260
 - pollen, food, predatory mites 4515
 - Rhopalosiphum padi*, Finland 10577
- Vicia sativa***
 - habitats, insects, UK 1530
 - insect pests, UK 1529-1530
 - Thrips palmi* 10510
- Vicia sativa* subsp. *nigra***
 - Anticarsia gemmatialis* 4591
- Aphididae, Japan 2679
- fields
 - Hymenoptera, Japan 8692
 - Syrphidae, Japan 2679
- Riptortus clavatus*, Japan 8692
- Vicia villosa***, arthropods, North Carolina 7614
- Vietnam**
 - Ameroseiidae, hosts 4533
 - Aplosynx* 5076
 - Galerucinae 2134
 - Gryllotalpa africana*, pathogens 6062
 - Lepidoptera 3422-3423
 - Nilaparvata lugens* 10630
 - Olethreutinae 3424
- Vigna aconitifolia***
 - Agriotes*, India 4853
 - commodities, *Callosobruchus maculatus*, India 10047
 - fields, *Aenictus pachycerus*, India 4853
 - Ophiomyia centrosematis* 2833
- Vigna angularis***
 - commodities
 - Callosobruchus* 7118
 - Callosobruchus chinensis* 11889
 - Frankliniella intonsa* 7800
 - Megalurothrips usitatus*, Taiwan 1633
 - Ophiomyia centrosematis* 2833
 - Spodoptera litura*
 - damage 2829
 - Taiwan 11722
- Vigna mungo***
 - Anarsia ephippias*, India 3867
 - Aphis craccivora* 1602, 2828, 6887, 9796
 - India 7643
 - commodities
 - Bruchidae
 - India 7997
 - resistance 6048

***Vigna mungo* cont.**

- commodities cont.
 - Callosobruchus maculatus* 11877
 - India 10047
 - diets, *Helicoverpa armigera* 9360
 - Helicoverpa armigera* 7120
 - fields, Coccinellidae, India 7643
 - insecticides, residues 2840
 - intercropping, soyabeans, pest control 4812
 - Melanagromyza sojae*, damage 8699
 - Ophiomyia centrosematis* 2833
 - pest control, India 2830
 - plant oils, toxicity 6887
 - Spilosoma obliqua* 2782
 - Spodoptera litura* 10798
- Vigna radiata***
 - Agriotes*, India 4853
 - Anarsia ephippias*, India 3867
 - Aphis craccivora* 1602, 2828
 - Bemisia tabaci*, India 1648
 - Cicadellidae, India 6884
 - commodities
 - Bruchidae
 - India 7997
 - resistance 6048
 - Callosobruchus* 948, 7998
 - Indonesia 5089
 - Callosobruchus chinensis* 1915
 - Callosobruchus maculatus* 1154, 1900, 6052, 11877
 - India 10047
 - Helicoverpa armigera* 7120
 - insecticides, effects 11054
 - Palembus dermestoides* 6026
 - Eublemma dimidialis*, varietal susceptibility 1651
 - fields
 - Aenictus pachycerus*, India 4853
 - Vespidae, India 4864
 - insect pests
 - India 2831
 - Sri Lanka 6888
 - varietal susceptibility 5811
 - insecticides
 - effects 4200, 4852
 - residues 7170, 11227, 11712
 - toxicity 2044
 - Lepidoptera, India 1649
 - Noctuidae, India 5813
 - Ophiomyia centrosematis* 2833
 - Ophiomyia phaseoli*, resistance 6888
 - pest control
 - Asia, reports 2119
 - Bangladesh 6854
 - Spodoptera litura* 11501
 - Philippines 5894
- Vigna sinensis* (see *V. unguiculata*)**
- Vigna sublobata***, commodities, Bruchidae, resistance 6048
- Vigna umbellata***
 - commodities, *Callosobruchus maculatus*, India 10047
 - insect pests, resistance 1652
 - Nezara viridula* 8702
 - Ophiomyia centrosematis* 2833
- Vigna unguiculata***
 - Amsacta moorei*, India 11718
 - Anarsia ephippias*, India 3867
 - Anticarsia gemmatialis* 11683
 - Aphididae 10795
 - Egypt 650
 - Aphis craccivora* 1602, 2828
 - damage 9794
 - Georgia 3774
 - India 6889, 7643
 - resistance 5812
 - attractants, *Glabromicroplitis croceipes* 9441
 - Bruchidae
 - India 7997
 - varietal susceptibility 1650
 - Bruchidius atrolineatus*, Niger 10797
 - Callosobruchus maculatus* 8000
 - Ceratomyia arcuata*, Brazil 10796
 - Ceratomyia ruficornis*, Cuba 4849
 - Chrysomelidae, Trinidad and Tobago 11716
 - Clavigralla tomentosicollis* 652
 - economic thresholds 3879
 - resistance 8703

***Vigna unguiculata* cont.**

- commodities
 - arthropod pests, control, botanical insecticides 1990
 - Bruchidae 8969
 - India 7997
 - Bruchidius atrolineatus*, Niger 8004
 - Callosobruchus* 4086, 7998
 - Callosobruchus chinensis* 3082
 - Callosobruchus maculatus* 6047, 6051, 10029, 10048, 11877
 - India 10047
 - Nigeria 3061
 - resistance 6049, 10050
 - Clavigralla tomentosicollis* 652
 - Corcyra cephalonica* 7086
 - Oxycarenus hyalinipennis* 6055
 - Palembus dermestoides* 6026
 - pest control 6676
 - Piezotrachelus* 4465
 - stored products pests 7087
 - Dorylus orientalis*, China 9737
 - fields
 - Braconidae, Egypt 650
 - Cheilomenes sexmaculata*, India 6889
 - Coccinellidae, India 7643
 - Orius tristicolor*, California 8662
 - Frankliniella occidentalis*, California 8662
 - genetics
 - genetic engineering, pest resistance 3136, 9798
 - pest resistance 8704
 - habitats, *Telenomus remus* 8370
 - insect pests
 - India 2827
 - resistance 1652, 6886
 - varietal susceptibility 6885
 - insecticides, toxicity 8701
 - intercropping
 - cassava, pest control 711, 11747
 - squashes, beneficial arthropods 11710
 - Maruca testulalis* 9781
 - Benin 9795
 - resistance 651, 11717
 - Medythia quaterna*, Africa 6456
 - Melanagromyza obtusa*, India 11719
 - Ootheca mutabilis*, Benin 5810
 - Ophiomyia centrosematis* 2833
 - Ophiomyia phaseoli*
 - economic thresholds 2816
 - India 2816
 - pest control, Zimbabwe 1600
 - pest resistance 7799
 - products, diets, *Helicoverpa armigera* 9360
 - Riptortus linearis* 4810
 - Spilosoma maculatus* 1653
 - Spilosoma obliqua*, India 1647
 - Spodoptera litura* 8370, 11501
 - Thysanoptera, Senegal 3684
- Vigna vexillata***, insect pests, resistance 6886
- Viminia rumicis***
 - fruit trees, Korea Republic 3747
 - monitoring, traps 3747
- Vinca rosea* (see *Catharanthus roseus*)**
- Vincetoxicum hirundinaria***
 - Euphranta connexa*, Sweden 7563
 - Lygaeus equestris* 7569
- Vineyards**
 - Amblyseius addoensis*, South Africa 515, 4721
 - Anagyrus dactylopii*, India 6790
 - Aphytis*, Taiwan 9662
 - arthropods
 - cultural methods, effects 5714
 - Italy 4723
 - beneficial arthropods
 - Austria 6792, 9659
 - fungicides, effects 9659
 - Switzerland 5714
 - beneficial insects, Austria 3765
 - Euseius finlandicus*, USSR 2512
 - Kampimodromus aberrans*, Italy 5715
 - Lysiphlebus fabarum*, Romania 3771
 - Phytoseiidae
 - Hungary 8569
 - Italy 9665

Vineyards cont.

- predatory insects, Switzerland 11624
- predatory mites, Austria 6780
- Typhlodromus exilaratus*, Italy 5711
- Typhlodromus pyri*, German Federal Republic 10681

Vipio guttiventris, hosts, *Oberea*

erythrocephala 8415

Viral insecticides (see also Microbial pesticides)

- genetic engineering 7232
- pest control 3128

pest control 6106

reviews 8052

USSR 8992

reviews 10082

production 7139

Viruses (see also Insect viruses)**Vitacea polistiformis**

biology

phenology 11630

seasonal fluctuations 8875

grapes, Ohio 11630

habitats, Georgia 8875

Vitamins, effects, Lepidoptera, cell lines

6490

Viteus vitifoliae

biotypes 8572

control, insecticides 4193, 10682, 11628

grapes

damage 8573

France 8572

USSR 516, 11628

Victoria 10682

physiology, enzymes 1060

Vitex cannabifolia, Aphididae, China 749**Vitex negundo**, extracts, toxicity,

Spodoptera litura 5189

Viticulture, books 8157**Vitis**

Cryphalus felis 804

Nipaecoccus filamentosus, Iran 3804

Polychrosis viteana, New York 9666

Vitis amurensis, extracts, effects,

Helicoverpa assulta 8786

Vitis vinifera (see Grapes)

Vitis vinifera (dried fruit) (see Raisins)

Vitula edmandsii, biology, behaviour

10340

Vitula edmandsii serratilineella

dried fruit 4084

taxonomy, for *Vitula serratilineella*

4084

Vitula rileyella, biology, behaviour 10340

Vitula serratilineella, taxonomy, as *Vitula*

edmandsii serratilineella 4084

Volaton (see Phoxim)

Volcan, control, *Idioscopus clypealis* 11675

Volucella

Italy 9418

taxonomy 9418

Volucella bombylans

Italy 9418

taxonomy 9418

Volvariella volvacea, insecticides, residues

9751

Vomitoxin

mixtures, toxicity, Noctuidae 873

toxicity, Noctuidae 873

Vryburgia amaryllidis

taxonomy

from *Coccus* 11788

synonyms 11788

Vryburgia lounsburyi, taxonomy, syno-

nyms, of *Vryburgia amaryllidis*

11788

Vydate (see Oxamyl)**W-147**

effects, *Trialeurodes vaporariorum*

4507

toxicity, *Drosophila melanogaster* 4215

W-328

effects, *Trialeurodes vaporariorum*

4507

toxicity, *Drosophila melanogaster* 4215

Walnuts

Acari, damage 2694

Callaphis juglandis, India 10686

Chromaphis juglandicola, California

6801

Walnuts cont.

commodities

Amyelois transitella, Italy 7994

Pyralidae, damage 5081

Cydia pomonella, damage 8547

Datana integerrima, Mexico 2717

extracts, attractants, *Rhagoletis com-*

pleta 9668

habitats, *Trioxys pallidus*, California

11634

orchards

beneficial arthropods, Mexico 2717

Praon himalayensis, India 10686

pest control, books 2093

pest resistance 2110

pollen, diets, *Neoseiulus fallacis* 4497

Rhagoletis completa, California 8577

Warburganal

antifeedants

Pieris brassicae 2250

Spodoptera 7245

Wasmannia auropunctata (see *Ocheto-*

myrmex auropunctatus)

Nymphidium lisimon, interactions 4004

Wasps (see Vespoidea)

Waste water, pesticides, pollution 4209

Water

entomopathogens, Florida 7126

insecticides

degradation 8072

effects 7218

extraction 2057

persistence 2063

residues 980, 2055, 3154, 3199,

3202, 5215, 6206, 6787, 7223-

7224, 7920, 8146, 9348-9349,

11182, 11766

detection 9089

insects, indicator species 9314

pesticides

residues 985, 2037, 10129, 10150,

11208, 11229

removal 10151

Water oak (see *Quercus nigra*)

Water pollution

Drosophila melanogaster, indicator

species 163

effects, *Neochetina bruchi* 4580

Waterfowl, insecticides, residues 8110

Watermelon curly mottle virus, vectors,

Bemisia tabaci 10779

Watermelon mosaic II potyvirus, vectors,

Aphididae 11708

Watermelons (*Citrullus lanatus*)

Anasa tristis 11702

Oklahoma 10781

Aphis gossypii, Japan 7761

arthropod pests, Hawaii 3866

Bemisia tabaci 5797, 10779

Turkey 1736

commodities, *Bactrocera xanthodes*,

Tonga 4085

Diaphania indica, China 5782

Dorylus orientalis, China 9737

insecticides, residues 7207

Liriomyza, Brazil 623

Tetranychus cinnabarinus, varietal sus-

ceptibility 10780

Wax apples (see *Eugenia malaccensis*)

Wax esters, effects, *Anthonomus grandis*

8772

Wax gourds (see *Benincasa hispida*)

Weeds

Agapanthia dahli, Hungary 4910

Agrotis ipsilon, India 9828

Aleyrodidae, Norway 10902

Althaeus hibisci 3607

Aphis craccivora, China 4921

Aphis gossypii, Japan 1374

arthropods

interactions, reviews 10518

North Carolina 2601

Asia 3416

Bemisia tabaci

Arizona 7764

India 4088

Turkey 1736

biological control 1969, 2557, 7556,

10455

reviews 6660

Cicadellidae, Philippines 5653

Weeds cont.

Cleoninae, Iran 6477

Cletus punctiger, Japan 2658

Cornuaspis cupressi 8804

Empoasca, Puerto Rico 9811

Eucoptacra ceylonica, India 10895

Frankliniella occidentalis, Texas 6905

habitats

insect pests 6634

parasitoids, Florida 6649

predatory mites, Austria 2741

Helicoverpa armigera, India 5878

Hyalesthes obsoletus, Turkey 9645

Hymenia recurvalis, Japan 9747

insect pests, Malaysia 8505

insecticides, residues 8133

insects

California 9593

China 5640

ecological balance 10505

interactions, reviews 2557

invertebrates, New South Wales 2572

Liriomyza, Florida 6649

Liriomyza bryoniae, Japan 4839

Lixus incanescens, Iran 684

lucerne, insect pests, interactions 11605

Lygus lineolaris, USA 1397

Macrosiphini, New Zealand 1398

mites, interactions 10704

Neohydronomus affinis 5556

Nilaparvata lugens 9589

Papaipema nebris 9549

Pentatomidae, Puerto Rico 9595

Phlyctinus callosus, South Africa 495

Phytoseiidae, Africa 2876

Psylloidea, Norway 4390

Pyralidae, food preferences 11580

Sesiidae, Austria 3432

Syrphidae 8350

Weeping lovegrass (see *Eragrostis curvula*)

Weevils (see Curculionidae)

Wesmaelia pendula

biology, phenology 10439

hosts, *Nabis* 10439

legumes, fields, Kentucky 10439

Wesmaelias, distribution, Canada 6537

West Africa

Achatina fulica 5537

Acridoidea, books 7279

Aleurocybotus indicus 442

Coniesta ignefusalis 420

Gastropoda 5538

Prostephanus truncatus 1907

Rastrococcus invadens, biological con-

trol agents 10658

sorghum, Lepidoptera 1509

Western Europe, integrated pest manage-

ment, reports 12036

Western hemlock (see *Tsuga heterophylla*)

Western larch (see *Larix occidentalis*)

Western Samoa

Brontispa longissima, parasitoids 3760

Cicadoidea 10239

Pseudauleacaspis pentagona, natural

enemies 581

Western white pine (see *Pinus monticola*)

Westralunio carteri

indicator species, insecticide residues

7228

insecticides, residues 7228

Wheat (*Triticum* spp.)

Acanthacris ruficornis, South Africa

9372

Aceria tulipae, resistance 4620, 7596

Agromyza cinerascens, China 2603

Apamea anceps, USSR 384, 2619

Aphididae 2602, 10559

China 4921

Ethiopia 10554

German Democratic Republic

10579

</

Wheat cont.

Aphididae cont.

varietal susceptibility 375

Aphidoidea 2038

arthropod pests

China 8064

control, cultural control 2616

Italy 11636

monitoring 8064

Sardinia 11620

arthropods, North Carolina 2601, 7614

bibliographies 10558

Cecidomyiidae

Finland 9535

yield losses 3653

Cephus, Morocco 6701

Cephus cinctus, resistance 4619, 7594

Chloropidae, USSR 394

Chlorops pumilionis, Switzerland

10570

Cicadellidae, Argentina 6764

Cicadulina chinai, Egypt 10552

Cicadulina mbila 6455

commodities

Alphitobius diaperinus 7986

arthropod pests 6036

Coleoptera 10035

damage 7109

German Federal Republic 3049

India 4069

resistance 11875

varietal susceptibility 11883

Corcyra cephalonica 11041

Cryptolestes 35

Cryptolestes ferrugineus, Kansas

6041

diets, Helicoverpa armigera 9360

Ephestia kuehniella 1903

insect pests 3062, 4073, 5091, 5099,

6018, 6032, 11034

damage 11027

reviews 4602

economics 10041

Israel 11038

Kansas 10041

plant oils, toxicity 5099

insecticides

effects 5094

residues 3443, 7105, 7107, 8949,

11034

toxicity 11026

insects, Bangladesh 10025

Lasioderma serricorne 7985

mites 8945

damage 8460

Oryzaephilus surinamensis 6034

Queensland 7100

Palembus dermestoides 6026

pest control

Kansas 7104

Sudan 6625

Prostephanus truncatus, India 858

Psocoptera, Manitoba 1902

Rhyzopertha dominica 4057, 6035,

7976, 8954, 10031, 10033,

11032

Sitophilus granarius 4487, 6033

Sitophilus oryzae 4058, 5087, 5097,

7098, 7110, 11881

resistance 11879

varietal susceptibility 3060

Sitophilus zeamais 7102

Sitotroga cerealella 8951

varietal susceptibility 6043,

11028, 11882

stored products pests 4066

Brazil 859

Tribolium 4076

Tribolium castaneum 7975, 11057

resistance 7099

Tribolium confusum 4060

Trogoderma granarium, resistance

6042

Delia coarctata 10567

German Democratic Republic 385-

387, 10568

Deroceras, Finland 9486

Deroceras reticulatum

damage 327

UK 8405

Diptera, resistance 1439, 10574

Wheat cont.

Diuraphis noxia 3658

Australia, models 10560

North America 4601

resistance 5603, 9541, 11536

yield losses 6706

Elasmopalpus lignosellus, damage

4625

Eurygaster integriceps

damage 8463

economic thresholds 373, 380

Iran 3649

USSR 377, 379, 3660

varietal susceptibility 378

extracts

effects

Sitophilus oryzae 4061

stored products pests 4062

fields

Achaearanea riparia, Switzerland

374

Aleochara, German Democratic

Republic 387, 10568

Aphidius uzbekistanicus, India

3648

arthropods 2038

German Federal Republic 2616

Brachycera, Yugoslavia 8462

Carabidae

German Federal Republic 2599

Spain 5600

USSR 383

Hymenoptera

Iran 3649

UK 10561

Nabis, Hungary 8461

Orthotydeus longisetosus, Egypt

1029

parasitoids

Brazil 5601

German Federal Republic 4632

USSR 2587

Pirene penetrans, Saskatchewan

6705

predatory arthropods

German Federal Republic 680

UK 8470

predatory insects

Brazil 3656

German Federal Republic 1433,

2597, 2617, 3662, 8468

Romania 9540

South Africa 5796

USSR 2618, 3661

Gastropoda, Belgium 6627

genetic engineering, pest resistance

7596

Hemiptera

Hungary 8461

South Africa 5796

insect pests 10558

Brazil 3656

China 4627

control 5607, 8464

insecticides 382, 7590

integrated control 9532

damage, reviews 4602

farming systems, effects 2617

Finland 9536

France 10569

German Democratic Republic 388

natural enemies 5607

Netherlands 9532

New Zealand 10553

resistance 10575

Romania 4614, 5606

USSR 382, 2587, 2618, 4615, 5607,

8464

varietal susceptibility 10572

yield losses 2621

insecticides

effects 1434, 2605, 2611, 3195,

5598, 7580

residues 7598

toxicity 11194

insects, German Federal Republic 2617

intercropping, Cicer arietinum, pest

control 5833

Isoptera, India 2613

Mayetiola destructor 376, 10565

damage 11535

Wheat cont.

Mayetiola destructor cont.

Georgia 10564

Kansas 7588

resistance 1435, 2615, 4618, 7591-

7592, 9537, 9539

USA 10563

varietal susceptibility 9531

Melanoplus 1221

Melanoplus sanguinipes 4440

Metopolophium dirhodum

German Federal Republic 1432

varietal susceptibility 10571

Mycodiplosis, India 11537

Mythimna loreyi, China 3654

Mythimna separata, China 3655

Mythimna sequax 6704

Nilaparvata lugens 9589

Noctuidae, Brazil 5601

Oulema

Poland 4629

yield losses 381

Oulema lichenis, German Federal

Republic 4632

Oulema melanopus, yield losses 4621

pest control

Brazil 9533

Burundi 7590

information 4626

USSR 2600

pest resistance 10556

pests, UK 10190

Porphyrophora tritici 391

products, Tribolium castaneum 7989

Psammotettix striatus, Hungary 10566

Rhopalocera, UK 7597

Rhopalosiphum, Queensland 1429

Rhopalosiphum padi 2605, 3084

varietal susceptibility 10573

Scarabaeidae, India 320

Schizaphis graminum 10976

Chile 367

resistance 1436, 2609, 11582

Romania 9540

varietal susceptibility 2646

Sitobion avenae 8458

China 10562

damage 4631

German Democratic Republic 390,

9364

Italy 2604

Pakistan 5605

resistance 1437, 2620, 4630, 8467

UK 5602, 8459, 8470, 10561

USSR 3661

varietal susceptibility 1438, 2606-

2607, 8465

Sitobion miscanthi, India 3648

Sitodiplosis mosellana

economic thresholds 9536

Japan 9534

Saskatchewan 2610, 6705

slugs

damage 3659, 9538

UK 370

Symphyta, Poland 7589

Tarsonemina, USSR 9542

Thripidae, Texas 9524

Zabrus tenebrioides, USSR 383, 6703

Wheat bran, Melanoplus 1221**Wheat dwarf geminivirus, vectors, Psam-****motettix striatus 10566****Wheat flour, Tribolium castaneum 862****Wheat germ oil, attractants, Trogoderma****granarium 4424****Wheat × Gramineae, Rhopalosiphum****padi, resistance 11529****Wheat × rye****Metopolophium dirhodum****Argentina 4622****varietal susceptibility 4622****Wheat spot mosaic virus, vectors, Aceria****tulipae 7596****Wheat streak mosaic virus****vectors****Acari 11084****Aceria tulipae 4620, 7596****White clover (see Trifolium repens)****White clover mosaic potexvirus, vectors,****Deroceras reticulatum 483**

- White currants**, arthropod pests, Belgium 10671
- White fir** (see *Abies concolor*)
- White gram** (see *Cicer arietinum*)
- White mustard** (*Sinapis alba*)
Athalia lugens 10761
Ceutorhynchus constrictus 7774
- White pine** (see *Pinus strobus*)
- White poplar** (see *Populus alba*)
- White spruce** (see *Picea glauca*)
- Whiteflies** (see Aleyrodidae)
- Wildlife**, insecticides, effects 5204, 7302
- Willow** (see *Salix*)
- Winged beans** (see *Psophocarpus tetragonolobus*)
- Winter crooknecks** (see *Cucurbita maxima*; *Cucurbita moschata*; *Cucurbita pepo*)
- Winter squashes** (see *Cucurbita maxima*; *Cucurbita moschata*; *Cucurbita pepo*)
- Winterschmidtidae**, taxonomy, keys 5455
- Winthemia**
Australasia 3525
taxonomy 3525
- Winthemia fumiferanae**
biology, phenology 7054
forests, Quebec 7054
hosts, *Choristoneura fumiferana* 7054
- Winthemia lateralis**
Australasia 3525
hosts, *Uraba lugens* 3525
- Winthemia novaguinea**
Australasia 3525
hosts, *Achaea janata* 3525
taxonomy, new species 3525
- Winthemia papuana**
Australasia 3525
hosts, *Antheraea* 3525
- Winthemia trinitatis**
hosts, *Spodoptera frugiperda* 8476
maize, fields, Brazil 8476
- Wireworms** (see Elateridae)
- Wiseana**
control, insecticides 6755
monitoring, traps 7682
pastures, New Zealand 6755, 7682, 11602
pathogens 11602
- Wisteria floribunda**, *Schizotetranychus leguminosus*, Japan 9947
- Wolbachia-like organisms**, hosts, *Drosophila simulans* 4128
- Wolbachia postica**, hosts, *Hypera postica* 6765
- Wood**
Anobium punctatum 1911
Coleoptera 4367, 5024
Japan 4078-4079
Coptotermes formosanus 4552
Florida 11481
Dactylosternum marginale, Australasia 10233
Hylotrupes bajulus, Switzerland 8957
insect pests
control 7256
Italy 8960
insects, traps 3070
Isoptera 3447
Rhinoitermitidae 8959
Siricoidea, Norway 1192
Xylocopa pubescens, Israel 10348
- Wood products**, pest control, India 11873
- Woodlands**
Cerapteryx graminis, Netherlands 1520
Eristalis pertinax, UK 9985
Formicidae
Japan 5014
Maryland 7047
USA 10398
habitats, Staphylinidae, Switzerland 4379
Halysia sexdecimguttata, UK 1854
Histeridae, Zambia 5055
Pheidole dentata, Florida 2421
Rhopalocera 9988
Spain 1823, 5020
slugs, UK 9483
- Woodpeckers**, prey, Siricidae 9983
- Woody plants**
habitats, mites 10469
- Woody plants cont.**
mites 10469
pest control, USSR 4992
Ricania sublimbata, China 1577
- Wool**
insect pests
biology 1896
control 1896
stored products pests 1892
- Workshops** (see Conferences)
- Wrightia tinctoria**, *Scolytogenes indicus* 804
- X radiation**, detection, stored products pests 869
- Xanthium**, biological control 10517
- Xanthium pensylvanicum**, *Bemisia tabaci*, Turkey 1736
- Xanthodes transversa**
biology, behaviour 1611
food plants, Japan 1611
- Xanthogaleruca luteola** (see *Pyrrhalta luteola*)
- Xanthomonas campestris pv. mangiferaeindicae**, vectors, insects 4800
- Xanthomonas citri**, vectors, *Phyllostictis citrella* 1576
- Xanthomonas translucens**, vectors, Aphididae 4652
- Xanthopastis timais**
French Guiana 11075
pathogens 11075
- Xanthopimpla pedator**
Gramineae, habitats, India 9527
hosts, *Scirpophaga excerptalis* 9527
- Xanthopimpla punctata punctata**
coconuts, plantations, India 9650
hosts, *Opisina arenosella* 9650
- Xanthopimpla rhopaloceros**
hosts, *Eutorna phaulocosma* 4715
New Zealand 4715
- Xanthotoxin** (see Methoxsalen)
- Xenaphycus**, *Aenigmaphycus*, differentiation 4539
- Xenocatantops humilis**
genetics 7383
sex chromosomes 5343
Malaysia 5343, 7383
- Xenoencyrtus**
biology, life tables 5004
Cleome viscorsa, habitats, India 5004
hosts, Hemiptera 5004
Prosopis cineraria, forests, India 5004
- Xenoencyrtus niger**
biology, life tables 5004
hosts, Hemiptera 5004
- Xenomelanophila**
anatomy 1821
distribution 1821
taxonomy 1821
- Xenomimetes**, taxonomy 8847
- Xenomimetes schmutzenhoferi**, *Picea spinulosa*, Bhutan 8847
- Xenopus**, insecticides, effects 12000
- Xenopus laevis**, pathogens 8979
- Xenorhabdus luminescens**, hosts, *Galleria mellonella* 1935
- Xenorhabdus nematophilus**
control, insect pests 4155
hosts, *Vespa pensylvanica* 5132
Neoplectana carpocapsae, interactions 4155
- Xenotemna pallorana**, *Hypericum*, USA 3613
- Xenylla maritima**, physiology, water relations 9272
- Xeris spectrum**
forest trees, UK 9983
predators 9983
- Xeropicta derbentina**, predators 3521-3522
- Xestia c-nigrum**
lucerne, Japan 1535
monitoring, traps 3139, 7455
pathogens 1535, 1955, 4148
Poland 4408
radiation, effects 4163
USSR 3139
- Xestobium rufovillosum**
biology 8960
wood, Italy 8960
- Xiphydria camelus**
Betula, logs, Finland 5916
- Xiphydria camelus cont.**
monitoring, traps 5916
- Xiphydriidae**, distribution, Norway 1192
- XRD-473** (see Hexaflumuron)
- XRD-522** (see Tralomethrin)
- Xyleborus**
distribution, USA 9965
taxonomy 9965
- Xyleborus alni**
distribution, Europe 5027
forest trees 5027
- Xyleborus amputatus**, distribution, Korea Republic 11380
- Xyleborus atratus**, distribution, USA 9965
- Xyleborus defensus**
attractants 2347
distribution, Korea Republic 2347
- Xyleborus dispar**
attractants 803
morphology 1909
Pinus sylvestris, Sweden 803
- Xyleborus fornicatus** (see *Euwallacea fornicatus*)
- Xyleborus lecontei**, coffee, Cuba 9897
- Xylella fastidiosa**
vectors
Cicadellidae 1549, 11666
insect pests 11900
- Xylena nupara**
food plants, Oregon 9634
parasitoids 9634
- Xyleutes leucomochla**, insects as food, Australia 1356
- Xylobiops parilis**, maize, commodities, Mexico 10023
- Xylocleptes bispinus**
Clematis vitalba, German Federal Republic 1377
physiology, pheromones 1377
- Xylococcus macrocarpa**
forest trees, California 1861
parasitoids 1861
- Xylocopa**
ecology, reviews 3033
natural enemies 3033
- Xylocopa pubescens**
biology, behaviour 10348
habitats, Israel 10348
- Xylocopinae**
biology 10189
evolution 10189
- Xylocoris**
biology 4060
development 5445
prey, *Tribolium confusum* 4060
- Xylocoris flavipes**
biology 860
prey, stored products pests 860
- Xylosandrus compactus**
Ambrosiella xylebori, interactions 2934
coffee
Cuba 10879
India 2934
morphology 10879
- Xylosandrus germanus**
biology 1909
control 1909
distribution, Switzerland 1909
morphology 1909
- Xyloterus** (see *Trypodendron*)
- Xyloterus lineatus** (see *Trypodendron lineatum*)
- Xylotrechus chinensis**
control, insecticides 9678
mulberries, China 9678
- Xylotrechus pyrrhoderus**
biology, behaviour 2711
grapes, Japan 2711
- Xylotrechus quadripes**
coffee, India 3947
control, insecticides 3947
- Xysticus cunctator**
grasslands, Utah 3729
prey, Miridae 3729
- Yamatocallis brevicauda**
Acer, India 2967
taxonomy, new species 2967
- Yams** (*Dioscorea* spp.)
Baeturia maddisoni, Oceania 10239
commodities
arthropod pests 1011

- Yams** *cont.*
 commodities *cont.*
 habitats, beneficial insects, India 7089
 insect pests, India 7089
 Lepidoptera, damage 6022
- Yeast hydrolysate**, attractants, *Anastrepha ludens* 9028
- Yeasts**
 attractants, *Bactrocera tryoni* 7757
Folsomia candida 5354
 insect attractants, mutagenicity 11651
Lasioderma serricorne, symbiosis 6021
 Pyralidae, interactions 8319
Tyrophagus putrescentiae 11872
- Yellow starthistle** (see *Centaurea solstitialis*)
- Yemen**
 Aphididae 4652
Callosobruchus maculatus 8000
- Yemen Arab Republic**
 Acrididae, pathogens 1216
Citrus, pest control 9701
 coffee, pest control 11776
 Heteroptera 6476
 Nitidulidae 143
Phyllocnistis citrella 1576
 sorghum, insect pests 7658
- Yemen Democratic Republic**, Heteroptera 6476
- α -Ylangene**, attractants, *Ceratitis capitata* 3211
- Yponomeuta**
 biology 3365
 food plants 5066
 taxonomy 5066
Yponomeuta cagnagellus, interactions 3999
- Yponomeuta cagnagellus***
 biology, behaviour 3999
 control, biological control 2720
 fruits, USSR 2720
 Lepidoptera, interactions 3999
 Netherlands 10454
 parasitoids 10454
- Yponomeuta evonymellus***
 Netherlands 10454
 parasitoids 10454
- Yponomeuta mahalebella***
 control, biological control 2720
 fruits, USSR 2720
 Netherlands 10454
 parasitoids 10454
- Yponomeuta malinellus***
 apples
 USSR 550
 Washington 7736
 biology 550
 control, biological control 2720
 fruit trees, USSR 2722
 fruits, USSR 2720
 insecticides, toxicity 3131
 Netherlands 10454
 parasitoids 550, 2722, 10454
 pheromones 7736
- Yponomeuta padellus***
 control, biological control 2720
Euonymus europaeus, Poland 5069
 fruits, USSR 2720
 Netherlands 10454
 parasitoids 5069, 10454
- Yponomeuta plumbellus***
 Netherlands 10454
 parasitoids 10454
- Yponomeuta rorellus***
 biology 5066
 control, biological control 2720
 fruits, USSR 2720
 Netherlands 10454
 parasitoids 10454
Salix alba, France 5066
- Yponomeuta vigintipunctatus***
 biology, environmental factors 10265
 Europe 10265
 Netherlands 10454
 parasitoids 3546, 10454
Sedum telephium, Netherlands 10504
- Yponomeutidae**, crops, Spain 1373
- Yucca whipplei***, *Prodoxus marginatus* 1287
- Yugoslavia**
Agrotis 8790
Ambrosia artemisiifolia, natural enemies 6635
Bothynoderes punctiventris 6912
 Brachycera 8462
Cameraria ohridella 829
 crops, pesticide residues, conferences 9124
Cryptorhynchus lapathi 11792
 hops, insect pests 7573
Megachile rotundata, parasitoids 8539
Panonychus ulmi 11642
Paranthrene 4252
 peaches, pest control, conferences 5238
 pest control 10205
Piranea juncii 11814
 potatoes, insecticide residues 11742
Propomacrus bimucronatus 7440
 soil, insecticide residues 11742
 Tettigoniidae 461
 Tipulidae 11388
- Zabrini**, Spain 1185
- Zabrotes***, taxonomy 4269
- Zabrotes subfasciatus***
Acanthoscelides obtectus, biology 868
 biology 1916
 polymorphism 11884
 population density 6054
 ecology 7999
 legumes, commodities 7999
 parasitoids 1343
Phaseolus, commodities, resistance 868, 1916
Phaseolus vulgaris
 Brazil 9785
 commodities 6054, 11884
 damage 6053
 varietal susceptibility 11885
 resistance 2822
 plant extracts, effects 4087
Vigna, commodities, resistance 6048
- Zabrus morio***
 ecology 1554
 orchards, USSR 1554
- Zabrus tenebrioides***
 biology 5582
 cereals, Italy 5582
 control 5582, 8048
 cultural control 6703
 wheat, USSR 383, 6703, 8464
- Zaire**
Abacarus afer 9525
Afroheterozercon ancoratus 11479
Cubitermes 11479
Medocostes lestoni 4541
Phthorimaea operculella 8741
- Zambia**
 groundnuts, arthropod pests 6910
 Histeridae 5055
Trogoderma granarium 8930
Zamia floridana (see *Z. pumila*)
Zamia furfuracea, *Rhopalotria mollis*, pollination 5941
Zamia pumila, *Eumaeus atala* 345
- Zanchius stani***
 cotton, fields, Syria 3245
 taxonomy, new species 3245
- Zanthoxylum alatum*** (see *Z. planispinum*)
- Zanthoxylum planispinum***, oils, effects, *Sitophilus oryzae* 5097
- Zaommomyia***
 Ecuador 1540
 hosts, *Hispoleptis subfasciata* 1540
- Zaprionus***
 figs, Iran 566
 India 7
 plant pathogens, transmission 566
- Zaprionus indiana***
 biology 3824
 diets 3824
 physiology, enzymes 3287
Zaprionus paravittiger (see *Z. indiana*)
Zatropis, hosts, *Prodioplosis platani* 1868
Zea mays (see Maize)
- Zealandencyrtus***, taxonomy, synonyms, of *Tetracnemoidea* 2124
- Zealandencyrtus yasumatsui***, taxonomy, synonyms, of *Tetracnemoidea bicolor* 2124
- Zebrina eburnea***, predators 3522
- Zectran** (see Mexacarbate)
- Zeiraphera canadensis***
 control, insecticides 8853
 insecticides, toxicity 8853
 pheromones 3023
Picea glauca, New Brunswick 3023, 8853
- Zeiraphera diniana***
 ecology, population dynamics 10960
Picea, Poland 8880
 taxonomy 5059
- Zeiraphera unfortunana***
 pheromones 3023
Picea glauca, New Brunswick 3023
- Zelaphycus***
 hosts, Diaspididae 2124
 New Zealand 2124
 taxonomy, new genus 2124
- Zelaphycus aspidioti***, taxonomy, from *Aphycomorpha* 2124
- Zele nigricornis***
 biology 5447
 Egypt 5447
 food 5447
 hosts, Noctuidae 5447
- Zelencyrtus***
 hosts, Lepidoptera 2124
 New Zealand 2124
 taxonomy, new genus 2124
- Zelkova serrata***, *Aceria zelkoviana*, galls 11828
- Zelostemma oleariae***, taxonomy, from *Metaclisis* 5491
- Zelus***
 prey, *Datana integerrima* 2717
 walnuts, orchards, Mexico 2717
- Zenodoxus brosisiformis***
 biology, development 2560
Convolvulus arvensis, Czechoslovakia 2560
 taxonomy 2560
- Zetzellia mali***
 apples
 orchards
 Austria 3796
 Italy 2734
 Ontario 4750, 8586
 Quebec 8612
 biology 1331
 ecology, population dynamics 2734, 8586
 fungicides, effects 520
 orchards, German Federal Republic 1282
 pesticides, effects 3796
 prey
 Acari 8586
 Panonychus ulmi 520
 Tetranychidae 4750
 USSR 1331
- Zeugloptera**, taxonomy 4259
- Zeugophora***, taxonomy 7946
- Zeugophora albiseta***
 taxonomy, new species 7946
 trees, Australia 7946
- Zeugophora williamsi***
 taxonomy, new species 7946
 trees, Australia 7946
- Zeuzera coffeae***
 ecology, distribution 4718
 grapes, Taiwan 4718
 sampling 4718
- Zilla spinosa***
Bryobia desertorum, Egypt 2562
Typhlodromus hellei, Egypt 2563
- Zimbabwe**
 crocodiles, insecticide residues 7202
 field crops, pest control 1600
 Isoptera 5522
 tobacco, reports 3944
Trogoderma granarium 8930
- Zinc**
 accumulation, slugs 9483
 effects
 Orchesella cincta 10138
 soil invertebrates 10018
 pollutants
 forests 5054
 invertebrates 9100
 Sphingidae 1835

- Zinc chloride**, effects, nuclear polyhedrosis viruses 1949
- Zinc fertilizers**, effects, *Spodoptera frugiperda* 8480
- Zinc sulfate**, control, citrus, arthropod pests 6828
- Zinea**
prey, *Datana integerrima* 2717
walnuts, orchards, Mexico 2717
- Zineb** ([1,2-ethanedithiolbis[carbamodithioato]](2-)]zinc)
effects
Cheletogenes ornatus 5749
mites 5711
mixtures
control, *Phyllocoptruta oleivora* 9720
nontarget effects, *Eutetranychus banksi* 9720
nontarget effects, *Kampimodromus aberrans* 5715
toxicity, *Cycloneda sanguinea* 10462
- Zingiber officinale** (see Ginger)
- Zingiberaceae**, *Mimegralla coeruleifrons* 6670
- Zingiberene**
effects, *Leptinotarsa decemlineata* 724
toxicity, *Leptinotarsa decemlineata* 9848
- Zinnia elegans**
Aceratagallia sanguinolenta, Minnesota 10885
Autographa gamma, UK 8808
- Ziram** ((T-4)-bis(dimethyl-carbamodithioato-S,S')zinc)
effects, *Drosophila melanogaster* 8078
toxicity, *Scirpophaga incertulas* 3714
- Zithiol** (see Malathion)
- Ziziphus jujuba** (see *Z. sativa*)
- Ziziphus mauritiana**
Anoplophora maculata, Taiwan 1815
Apis florea, pollination 1571
Carpomyia vesuviana, India 3013, 6847, 8637
Indarbela quadrinotata, India 5010
Kerria lacca, India 6846
Lycostomus praeustus, India 11672
- Ziziphus sativa**
extracts, attractants, *Reticulitermes lucifugus* 11489
Hishimonus sellatus
China 11657
Korea Republic 10739
Paraphytophtus jujubae, India 10738
Suca jujuba, economic thresholds 1569
- Ziziphus spina-christi**
arthropods, Egypt 5744
wood, *Psammotermes hybostoma*, damage 3067
- Zizyphus jujuba** (see *Ziziphus sativa*)
- Zolone** (see Phosalone)
- Zonabris pustulata**, onions, India 8753
- Zonitoides nitidus**
control, molluscicides 6996
Orchidaceae, Italy 6996
- Zonocerus elegans**, groundnuts, Zambia 6910
- Zonocerus variegatus**
Africa 4444
bibliographies 4444
biology 4444
reviews 5417
control 7300
field crops, Sahel 7300
food plants, Africa 5417
genetics, chromosomes 2405
- Zonotrichia albicollis**, insecticides, effects 10139
- Zoogeography**
Diptera, Israel, books 1174
social insects, Israel, books 1173
- Zoology**, Israel, conferences 9129
- Zoophthora phytonomi** (see *Erynia phytonomi*)
- Zoophthora radicans** (see *Erynia radicans*)
- Zooplankton**, insecticides, effects 972-973, 6172
- Zootermopsis**
North America 6602
- Zootermopsis cont.**
taxonomy 6602
- Zootermopsis angusticollis**
biochemistry, hydrocarbons 2525
biology, behaviour 2525
North America 6602
plant extracts, toxicity 800
taxonomy 6602
- Zootermopsis laticeps**
biochemistry, hydrocarbons 2525
biology, behaviour 2525
- Zootermopsis nevadensis**
biochemistry, hydrocarbons 2525
biology, behaviour 2525
North America 6602
taxonomy 6602
- Zootermopsis nevadensis nuttingi**, taxonomy, new subspecies 2525
- Zophosis**, maize, South Africa 9572
- ZR-10151**, effects, *Choristoneura fumiferana* 7234
- ZR-512** (see Hydroprene)
- ZR-515** (see Methoprene)
- ZR-8487**, effects, *Choristoneura fumiferana* 7234
- ZR-9582**, effects, *Choristoneura fumiferana* 7234
- ZR-9892**, effects, *Choristoneura fumiferana* 7234
- Zucchini mosaic potyvirus**, vectors, *Aphis gossypii* 7784
- Zucchini yellow mosaic potyvirus**, vectors, Aphididae 11708
- Zucchiniis** (see *Cucurbita maxima*; *Cucurbita moschata*; *Cucurbita pepo*)
- Zulia colombiana**
grasses 11406
Colombia 1512
rearing techniques 11406
- Zulia enteriana**
biology 9616
behaviour 4686, 6754, 9617
Brachiaria decumbens 4692
Brazil 6754, 9617-9618
control, cultural control 4691
food plants, Brazil 4686
Gramineae, Brazil 4679
monitoring 4686, 9616
pastures, Brazil 4691, 9616
physiology
digestion 9618
secretions 4692
- Zygaena**, distribution, Greece 156, 8301
- Zygaena carniolica**, distribution, Greece 156, 8301
- Zygaena ephialtes**, distribution, Greece 8301
- Zygaena filipendulae**
distribution, Greece 156, 8301
food plants 1536
Trifolium medium, Denmark 1536
- Zygaena lonicerae**
distribution, UK 7435
food plants 1536
Trifolium medium, Denmark 1536
- Zygaena minos**
genetics, population genetics 1142
Italy 1142
- Zygaena purpuralis**
distribution, Greece 8301
genetics, population genetics 1142
Italy 1142
- Zygaena viciae**
food plants 1536
Trifolium medium, Denmark 1536
- Zygaenidae**
crops, Spain 1373
parasitoids 2445
- Zygiella x-notata**
cardenolides, effects 247
prey, Aphididae 247
- Zygina flammigera**
biology 2750
control 2750
peaches, Italy 2750
- Zygina zealandica**, Gramineae, New Zealand 8526
- Zyginella pulchra**
fruit trees, Iran 3778
morphology, genitalia 3778
- Zyginidia pullula**
Italy 3672
pathogens 3672
- Zyginidia scutellaris**
ecology, population dynamics 9545, 9611
grasslands, UK 9545, 9611
- Zygogramma suturalis**
biology 4583, 6635, 10194
food preferences 4578
China 4583
control
Ambrosia 10194
Ambrosia artemisiifolia 4583, 6635
evaluation 4578
ecology, population dynamics 6659
morphology 10194
USSR 6659, 10194
Yugoslavia 6635

LIST OF SERIALS ABSTRACTED

Listed below are the titles of the serial publications (excluding most annual reports and conference proceedings) abstracted during 1990 for this journal. All the titles are given in full, except abbreviated titles taken from secondary publications such as *Referativnyi Zhurnal*.

Many other serials were scanned during 1990 but no relevant articles were selected. A full list of all the serials scanned for items suitable for abstracting for the CAB ABSTRACTS database and the whole range of CABI's abstract journals is given in the *CAB International Serials Checklist, 1988 edition*. The publication includes ISSNs and publishers' addresses.

- A Mosonmagyaróvári Mezőgazdaságtudományi Kar Közleményei
- Abhandlungen und Berichte des Naturkundemuseums Görlitz
- Abstracts on Cassava
- Abstracts on Field Beans
- Acarologia
- ACIAR Technical Reports Series
- ACS Symposium Series
- Acta Academiae Agriculturae ac Technicae Olstenensis, Veterinaria
- Acta Agraria et Silvestria, Agraria
- Acta Agriculturae Boreali-Sinica
- Acta Agriculturae Nucleatae Sinica
- Acta Agriculturae Shanghai
- Acta Agriculturae Universitatis Jilinensis
- Acta Biochimica et Biophysica Sinica
- Acta Biologica Hungarica
- Acta Botanica Neerlandica
- Acta Dendrobiologica
- Acta Ecologica Sinica
- Acta Entomologica Bohemoslovaca
- Acta Entomologica Chilena
- Acta Entomologica Fennica
- Acta Entomologica Jugoslavica
- Acta Entomologica Musei Nationalis Pragae
- Acta Entomologica Sinica
- Acta Facultatis Rerum Naturalium Universitatis Comenianae, Zoologia
- Acta Horticulturae
- Acta Hydrochimica et Hydrobiologica
- Acta Microbiologica Bulgarica
- Acta Microbiologica Hungarica
- Acta Microbiologica Sinica
- Acta Musei Scientiarum Naturalium
- Acta Oecologica, Oecologia Applicata
- Acta Oecologica, Oecologia Generalis
- Acta Physiologica Hungarica
- Acta Physiologica Polonica
- Acta Phytopathologica et Entomologica Hungarica
- Acta Phytophylactica Sinica
- Acta Protozoologica
- Acta Scientiarum Naturalium Universitatis Sunyatseni
- Acta Sericologica Sinica
- Acta Universitatis Agriculturae, Facultas Agronomica
- Acta Virologica
- Acta Zoologica (Stockholm)
- Acta Zoologica Bulgarica
- Acta Zoologica Fennica
- Acta Zoologica Hungarica
- Acta Zoologica Sinica
- Acta Zootaxonomica Sinica
- Actes de l'Institut Agronomique et Vétérinaire Hassan II
- Actes des Colloques Insectes Sociaux
- Actividades en Turrialba
- Advances in Biotechnological Processes
- Advances in Comparative and Environmental Physiology
- Advances in Disease Vector Research
- Advances in Ecological Research
- Advances in Insect Physiology
- Advances in Parasitic Hymenoptera Research
- Advances in Plant Sciences
- Advances in Research and Technology of Seeds
- Advances in Virus Research
- AE Research, Department of Agricultural Economics, Cornell University
- AFRC News
- African Journal of Ecology
- AgBiotech News and Information
- Agribusiness Worldwide
- Agricultura (Madrid)
- Agricultura Técnica (Santiago)
- Agricultura Tropica et Subtropica
- Agricultural and Biological Chemistry
- Agricultural Economic Report, Economic Research Service, US Department of Agriculture
- Agricultural History
- Agricultural News
- Agricultural Research (Washington)
- Agricultural Research Journal of Kerala
- Agricultural Science Digest (Karnal)
- Agricultural Situation in India
- Agricultural Systems
- Agricultural University Wageningen Papers
- Agricultural Zoology Reviews
- Agriculture Handbook, US Department of Agriculture
- Agriculture, Ecosystems & Environment
- Agro Sur
- Agrochémia
- Agrociencia
- Agroforestry Abstracts
- Agrokimiya
- Agronomia Sulriogradense
- Agronomía Tropical (Maracay)
- Agronomie
- Agronomie Tropicale
- Agronomy Journal
- AI Applications in Natural Resource Management
- Alexandria Journal of Agricultural Research
- Allgemeine Deutsche Imkerzeitung
- Alon Hanotea
- AMA, Agricultural Mechanization in Asia, Africa and Latin America
- Ambio
- American Bee Journal
- American Industrial Hygiene Association Journal
- American Journal of Agricultural Economics
- American Journal of Botany
- American Journal of Industrial Medicine
- American Journal of Physiology
- American Journal of Public Health
- American Midland Naturalist
- American Naturalist
- American Nurseryman
- American Potato Journal
- American Scientist
- American Zoologist
- Anais da Escola Superior de Agricultura 'Luiz de Queiroz'
- Anais da Sociedade Entomológica do Brasil
- Analele Institutului de Cercetări pentru Cereale și Plante Tehnice, Fundulea
- Anales de Biología, Biología Animal
- Anales de Edafología y Agrobiología
- Anales de la Sociedad Científica Argentina
- Anali za Šumarstvo
- Analyst
- Analytica Chimica Acta
- Anatomical Record
- Angewandte Chemie
- Angewandte Parasitologie
- Animal Behaviour
- Annales Agriculturae Fenniae
- Annales de l'Institut Pasteur, Microbiologie
- Annales de la Société Entomologique de France
- Annales de Parasitologie Humaine et Comparée
- Annales des Sciences Naturelles, Zoologie, Paris
- Annales Entomologici Fennici
- Annales Historico-Naturales Musei Nationalis Hungarici
- Annales Universitatis Mariae-Curie-Skłodowska. Sectio DD, Medicina Veterinaria
- Annales Zoologici
- Annales Zoologici Fennici
- Annali del Museo Civico di Storia Naturale Giacomo Doria
- Annali dell'Istituto Sperimentale per il Tabacco
- Annali dell'Istituto Sperimentale per l'Agricoltura
- Annali dell'Istituto Sperimentale per le Colture Industriali
- Annali della Facoltà di Scienze Agrarie della Università degli Studi di Napoli, Portici, IV
- Annali di Microbiologia ed Enzimologia

- Annals of Agricultural Research
 Annals of Agricultural Science (Cairo)
 Annals of Applied Biology
 Annals of Arid Zone
 Annals of Biology (Ludhiana)
 Annals of Botany
 Annals of Entomology
 Annals of the Entomological Society of America
 Annals of the Missouri Botanical Garden
 Annals of the Phytopathological Society of Japan
 Annals of Warsaw Agricultural University SGGW-AR, Horticulture
 Annual Report - Argentine Ant Control, Department of Agriculture, Western Australia
 Annual Report - Central Tobacco Research Institute, India
 Annual Report - Institute for Commercial Forestry Research, University of Natal
 Annual Report of the Society of Plant Protection of North Japan
 Annual Report of the Tokyo Metropolitan Research Laboratory of Public Health
 Annual Review of Ecology and Systematics
 Annual Review of Entomology
 Annual Review of Microbiology
 Annual Review of Neuroscience
 Annual Review of Phytopathology
 Annuario dell'Istituto e Museo di Zoologia dell'Università di Napoli
 Anzeiger für Schädlingskunde, Pflanzenschutz, Umweltschutz
 Apicoltore Moderno
 Apidologie
 Applied Agricultural Research
 Applied and Environmental Microbiology
 Applied Entomology and Zoology
 Applied Microbiology and Biotechnology
 Applied Plant Science
 Aquatic Insects
 Arab and Near East Plant Protection Newsletter
 Arab Journal of Plant Protection
 Arboriculture Research Note - Department of the Environment, UK
 Archiv für Hydrobiologie
 Archiv für Molluskenkunde
 Archiv für Naturschutz und Landschaftsforschung
 Archiv für Phytopathologie und Pflanzenschutz
 Archiv für Protistenkunde
 Archiv für Züchtungsforschung
 Archives of Biochemistry and Biophysics
 Archives of Environmental Contamination and Toxicology
 Archives of Insect Biochemistry and Physiology
 Archives of Neurology
 Archives of Toxicology
 Archives of Virology
 Arctic
 Arkansas Farm Research
 Arquivos de Biologia e Tecnologia
 Arroz en las Américas
 Articulação Pesquisa-Extensão
 ASFIS Reference Series, Aquatic Sciences and Fisheries Information System
 Aspects of Applied Biology
 Assiut Journal of Agricultural Sciences
 Atmospheric Environment
 Australasian Plant Pathology
 Australian Entomological Magazine
 Australian Journal of Agricultural Research
 Australian Journal of Biotechnology
 Australian Journal of Ecology
 Australian Journal of Experimental Agriculture
 Australian Journal of Marine and Freshwater Research
 Australian Journal of Zoology
 AVRDC Publication, Asian Vegetable Research and Development Center
 Bamidgeh
 Bangladesh Journal of Scientific and Industrial Research
 Bangladesh Journal of Zoology
 Barley Genetics Newsletter
 BASF Agricultural News
 Bacteria
 BCPC Monograph
 Behavior Genetics
 Behavioral Ecology and Sociobiology
 Behaviour
 Beiträge zur Entomologie
 Beiträge zur Tropischen Landwirtschaft und Veterinärmedizin
 Berichte des Ohara Instituts für Landwirtschaftliche Biologie, Okayama Universität
 Besseres Obst
 BGF Bulletin
 Bhartiya Krishi Anusandhan Patrika
 Bibliographie der Pflanzenschutzliteratur
 Bibliographies and Literature of Agriculture
 Bio/Technology
 Biochemical and Biophysical Research Communications
 Biochemical Journal
 Biochemical Pharmacology
 Biochemical Society Transactions
 Biochemical Systematics and Ecology
 Biochemistry and Cell Biology
 Biochemistry International
 Biochimica et Biophysica Acta (G), General Subjects
 Biochimica et Biophysica Acta (L), Lipids and Lipid Metabolism
 Biochimica et Biophysica Acta (M), Biomembranes
 Biochimica et Biophysica Acta (N), Gene Structure and Expression
 Biochimica et Biophysica Acta (P), Protein Structure and Molecular Enzymology
 Biocontrol News and Information
 Bioessays
 Biofutur
 Biogenic Amines
 Biokhimiya
 Biológia (Bratislava)
 Biological Agriculture & Horticulture
 Biological Conservation
 Biological Journal of the Linnean Society
 Biological Survey of Canada Taxonomic Series
 Biologicheskii Zhurnal Armenii
 Biológico
 Biology and Fertility of Soils
 Biology of Metals
 Biology of the Cell
 Biološki Vestnik
 BioScience
 Biotechnology Advances
 Biotechnology and Bioengineering
 Biotechnology Letters
 Biotehnologiya
 Biotropica
 Bodenkultur
 Bois et Forêts des Tropiques
 Boletim Técnico do Instituto Florestal (São Paulo)
 Boletim Técnico, Programa de Pesquisa, Organização das Cooperativas do Estado do Paraná
 Boletín Bibliográfico, INTA, Argentina
 Boletín de la Asociación Española de Entomología
 Boletín de Promecafé
 Boletín de Sanidad Vegetal, Fuera de Serie
 Boletín de Sanidad Vegetal, Plagas
 Boletín Informativo - Manejo Integrado de Plagas
 Bollettino del Laboratorio di Entomologia Agraria 'Filippo Silvestri'
 Bollettino del Museo Civico di Storia Naturale di Venezia
 Bollettino dell'Istituto di Entomologia della Università degli Studi di Bologna
 Bollettino della Società Entomologica Italiana
 Bollettino di Zoologia
 Bollettino di Zoologia Agraria e di Bachicoltura
 Botanical Bulletin of Academia Sinica
 Botanical Journal of the Linnean Society
 Bothalia
 Bragantia
 Brasil Florestal
 Brazilian Journal of Medical and Biological Research
 Brenesia
 British Cactus and Succulent Journal
 British Journal of Dermatology
 British Journal of Entomology and Natural History
 British Journal of Industrial Medicine
 British Standard
 British Sugar Beet Review
 Buletin Penelitan Hortikultura
 Buletin Penelitan Hutan, Pusat Penelitan dan Pengembangan Hutan
 Buletini i Shkencave Zootehnike e Veterinare
 Buletinul de Protecția Plantelor
 Buletinul Informativ al Academiei de Științe Agricole și Silvicultură
 Bulletin - Agricultural Experiment Station, Kansas State University
 Bulletin - Alabama Agricultural Experiment Station
 Bulletin - Connecticut Agricultural Experiment Station
 Bulletin - Department of Conservation, Forests and Lands, Victoria
 Bulletin - Louisiana Agricultural Experiment Station
 Bulletin - Mississippi Agricultural and Forestry Experiment Station
 Bulletin - Overseas Development Natural Resources Institute
 Bulletin - Texas Agricultural Experiment Station
 Bulletin - Virginia Agricultural Experiment Station
 Bulletin - Výzkumný a Šlechtitelský Ústav Zelinářský Olomouc
 Bulletin Agronomique (Petit Bourg)
 Bulletin CËTIOM
 Bulletin d'Écologie
 Bulletin de l'Académie des Sciences Agricoles et Forestières, Romania
 Bulletin de l'Institut Pasteur, France
 Bulletin de l'Institut Royal des Sciences Naturelles de Belgique, Entomologie
 Bulletin de l'Institut Scientifique, Université Mohammed
 Bulletin de la Société Entomologique d'Égypte
 Bulletin de la Société Entomologique de France

- Bulletin de la Société Royale des Sciences de Liège
 Bulletin de la Société Zoologique de France
 Bulletin des G.T.V.
 Bulletin des Recherches Agronomiques de Gembloux
 Bulletin et Annales de la Société Royale Belge d'Entomologie
 Bulletin OEPP
 Bulletin of Entomological Research
 Bulletin of Entomology (New Delhi)
 Bulletin of Environmental Contamination and Toxicology
 Bulletin of Hokkaido Prefectural Agricultural Experiment Stations
 Bulletin of Malacology (Taipei)
 Bulletin of Mathematical Biology
 Bulletin of the British Museum (Natural History), Entomology
 Bulletin of the Chugoku National Agricultural Experiment Station
 Bulletin of the Entomological Society of America
 Bulletin of the Entomological Society of Egypt, Economic Series
 Bulletin of the Faculty of Agriculture, Niigata University
 Bulletin of the Faculty of Agriculture, Shimane University
 Bulletin of the Faculty of Agriculture, Yamaguchi University
 Bulletin of the Forestry and Forest Products Research Institute, Japan
 Bulletin of the Fruit Tree Research Station, Series C, Morioka
 Bulletin of the Hokkaido Prefectural Agricultural Experiment Stations
 Bulletin of the Institute of Zoology, Academia Sinica
 Bulletin of the Kyoto University Forests
 Bulletin of the National Agricultural Research Center, Japan
 Bulletin of the National Institute of Agro-Environmental Sciences, Japan
 Bulletin of the National Research Institute of Vegetables, Ornamental Plants and Tea, A
 Bulletin of the Polish Academy of Sciences, Biological Sciences
 Bulletin of the Shikoku National Agricultural Experiment Station
 Bulletin of the Shizuoka Prefectural Citrus Experiment Station
 Bulletin of the Society for Vector Ecology
 Bulletin of the Tokyo University Forests
 Bulletin of the University of Agricultural Sciences, Gödöllő
 Bulletin of the Zoological Society of Egypt
 Bulletin SROP
 Byulleten Vsesoyuznogo Instituta Eksperimental'noi Veterinari
 Cahier des Journées Horticoles Ornementales
 Cahiers des Naturalistes
 California Agriculture
 Canadian Entomologist
 Canadian Journal of Botany
 Canadian Journal of Fisheries and Aquatic Sciences
 Canadian Journal of Forest Research
 Canadian Journal of Genetics and Cytology
 Canadian Journal of Microbiology
 Canadian Journal of Plant Pathology
 Canadian Journal of Plant Science
 Canadian Journal of Zoology
 Canadian Plant Disease Survey
 Capsicum Newsletter
 Caryologia
 Cassava Newsletter
 Cell and Tissue Research
 Cell Biology and Toxicology
 Cellular and Molecular Neurobiology
 Cenicafe
 Centro Agrícola
 Ceylon Medical Journal
 CFRU Progress Report - College of Forest Resources, University of Maine
 Champignoncultuur
 Changing Villages
 Chemical Communications
 Chemical Research in Toxicology
 Chemistry and Industry
 Chemistry Express
 Chemistry of Natural Compounds
 Chemosphere
 China Cottons
 Chinese Journal of Biological Control
 Chinese Journal of Biotechnology
 Chinese Journal of Entomology
 Chinese Journal of Preventive Medicine (Zhonghua Yufang Yixue Zazhi)
 Chinese Journal of Virology
 Chmelarstvi
 Chromatographia
 Chromosoma
 Cicindela
 Ciencia Agropecuaria-Instituto de Investigación Agropecuaria de Panamá
 Ciência e Cultura (São Paulo)
 Ciencia y Técnica en la Agricultura, Arroz
 Ciencia y Técnica en la Agricultura, Cítricos y Otros Frutales
 Ciencia y Técnica en la Agricultura, Protección de Plantas
 Ciencias de la Agricultura
 Científica (Jaboticabal)
 Circular - Agricultural and Forestry Experiment Station, West Virginia University
 Circular - Instituto Agronômico do Paraná
 Circular Técnica - Empresa Goiana de Pesquisa Agropecuária, EMBRAPA
 Circular Técnica - Unidade de Execução de Pesquisa de Âmbito Estadual de Dourados, EMBRAPA
 Citrograph
 Citrus and Subtropical Fruit Journal
 Citrus and Vegetable Magazine
 Clay Research
 CMU Journal of Science
 COCOS
 Coleopterists Bulletin
 Colloques de l'INRA
 Colture Protette
 Comunicaciones INIA. Série Protección Vegetal
 Communicationes Instituti Forestalis Fenniae
 Comparative Biochemistry and Physiology. A, Comparative Physiology
 Comparative Biochemistry and Physiology. B, Comparative Biochemistry
 Comparative Physiology and Ecology
 Comptes Rendus de l'Académie des Sciences. Series 3, Sciences de la Vie
 Comptes Rendus des Séances de la Société de Biologie et de ses Filiales
 Computers and Electronics in Agriculture
 Comunicado Técnico - UEPAE de Dourados
 Condor
 Congrès d'Hiver, Institut International de Recherches Betteravières
 Contributions from Shanghai Institute of Entomology
 Contributions of the American Entomological Institute
 Coton et Fibres Tropicales
 Cotton Development
 Courier Forschungsinstituts Senckenberg
 CRC Critical Reviews in Biotechnology
 Crop Protection
 Crop Research (Edinburgh)
 Crop Research (Hisar)
 Crop Science
 Cruciferae Newsletter
 Cryo-letters
 Cuadernos de Apicultura
 Cuba Azucar
 Cultivar (Paris)
 Curator
 Current Agriculture
 Current Genetics
 Current Microbiology
 Current Research - University of Agricultural Sciences (Bangalore)
 Current Research Reporter
 Current Science
 Current Topics in Environmental and Toxicological Chemistry
 Cytobios
 Cytologia
 Date Palm Journal
 Deutsche Entomologische Zeitschrift
 Deutscher Gartenbau
 Development
 Developmental and Comparative Immunology
 Developmental Biology
 Difesa delle Pianta
 Dirasat
 Diseases of Aquatic Organisms
 Dissertation Abstracts International. B, Sciences and Engineering
 Distribution Maps of Pests
 DLG-Mitteilungen
 Documentos - UEPAE Dourados
 Documentos de Ciencia y Técnica, Ciencias Agropecuarias, Instituto Superior de Ciencias Agropecuarias de La Habana
 Documentos, Centro Nacional de Pesquisa de Soja, EMBRAPA
 Doga, Türk Botanik Dergisi
 Doga, Türk Zooloji Dergisi
 Doklady Biological Sciences
 Doklady Vsesoyuznot Ordena Lenina i Ordena Trudovogo Krasnogo Znameni Akademii Sel'skokhozyaistvennykh Nauk im. V.I. Lenina
 Doklady, Biological Sciences
 Down to Earth
 Drug Intelligence & Clinical Pharmacy
 DSIR Entomology Division Report
 DSIR Plant Protection Report
 Durban Museum Novitates
 East African Medical Journal
 Ecological Entomology
 Ecological Modelling
 Ecological Research
 Ecological Review
 Ecological Studies
 Ecologist
 Ecology, USA

- Ecossistema
 Ecotoxicology and Environmental Safety
 Eesti NSV Teaduste Akadeemia Toimetised, Biologia
 Eisei Kagaku = Japanese Journal of Toxicology and Environmental Health
 Ekologia Polska
 Ekológia, ČSSR
 Elytron
 EMBO Journal
 Endeavour
 Entomologia Experimentalis et Applicata
 Entomologia Generalis
 Entomologica
 Entomologica Basiliensia
 Entomologica Scandinavica
 Entomological News
 Entomological Research Bulletin
 Entomological Review of Japan
 Entomological Science
 Entomologicheskoe Obozrenie
 Entomologie et Phytopathologie Appliquées
 Entomologische Berichten
 Entomologische Mitteilungen aus dem Zoologischen Museum Hamburg
 Entomologische Nachrichten und Berichte
 Entomologisk Tidskrift
 Entomologiske Meddelelser
 Entomologist
 Entomologist's Gazette
 Entomologist's Monthly Magazine
 Entomology Circular (Gainesville)
 Entomon
 Entomonograph
 Entomophaga
 Entomotaxonomia
 Entwicklung + Ländlicher Raum
 Environment and Ecology
 Environmental Conservation
 Environmental Entomology
 Environmental Health Criteria
 Environmental Monitoring and Assessment
 Environmental Pollution
 Environmental Research (New York)
 Environmental Science & Technology
 Environmental Technology Letters
 Environmental Toxicology and Chemistry
 Eos (Madrid)
 EPPO Publications
 Esakia
 Essais - Centre Technique Interprofessionnel des Fruits et Légumes
 Ethiopian Journal of Agricultural Sciences
 Ethology
 Ethology, Ecology & Evolution
 Euphytica
 European Journal of Biochemistry
 European Journal of Protistology
 European Patent
 European Patent Application
 Evolution
 Evolutionary Trends in Plants
 Experientia
 Experientiae (Vicosa)
 Experimental & Applied Acarology
 Experimental Agriculture
 Experimental Cell Research
 Experimental Mycology
 Experimental Parasitology
 Extension Bulletin - ASPAC, Food & Fertilizer Technology Center
 Extension Bulletin - Cooperative Extension, College of Agriculture & Home Economics, Washington State University
 FABIS Newsletter
 Fagopyrum
 FAO Agricultural Services Bulletin
 FAO Fisheries Technical Paper
 FAO Plant Production and Protection Paper
 FAO Plant Protection Bulletin
 Farm Science Journal
 Farming Systems and Resource Economics in the Tropics
 Fauna Norvegica, B
 Fauna of New Zealand
 Fauna of Saudi Arabia
 Fauna of the USSR
 Fauna Palaestina
 FEBS Letters
 Feldwirtschaft
 FEMS Microbiology Letters
 Field Crops Research
 Field Studies
 Fitopatologia Brasileira
 Fitoterapia
 Fiziologicheskii Zhurnal
 Florida Entomologist
 Focus on Phytochemical Pesticides
 Folia Biologica (Warszawa)
 Folia Entomologica Hungarica
 Folia Entomológica Mexicana
 Folia Parasitologica
 Folia Veterinaria
 FONAIAP Divulga
 Food Australia
 Forensic Science International
 Forest Ecology and Management
 Forest Insect and Disease Survey, Forestry Canada
 Forest Research
 Forest Research Note - Forestry Division, Solomon Islands
 Forest Science
 Forestry Commission Bulletin, UK
 Forstarchiv
 Fortschrittsberichte für die Landwirtschaft und Nahrungsgüterwirtschaft
 Fragmenta Balcanica
 Fragmenta Entomologica
 Fragmenta Faunistica
 FRDA Report (Victoria, B.C.)
 Fresenius' Zeitschrift für Analytische Chemie
 Freshwater Biology
 Fruit Belge
 Fruit Science Reports
 Fruits (Paris)
 Fruiteelt (Den Haag)
 Frustula Entomologica
 Fujian Agricultural Science and Technology
 Functional Ecology
 Fundamental and Applied Toxicology
 Garden (New York)
 Gärtner Tidende
 Gärtneryrket
 Gastropodia
 Gb + Gw, Gärtnerbörse und Gartenwelt
 Gemüse (München)
 Gene
 General and Applied Entomology
 General and Comparative Endocrinology
 General Technical Report - Pacific Northwest Research Station, USDA Forest Service
 General Technical Report - Southeastern Forest Experiment Station, USDA Forest Service
 General Technical Report - Southern Forest Experiment Station, USDA Forest Service
 Genetica
 Genetica Agraria
 Genetics
 Genetics, Selection, Evolution
 Genetika (Moskva)
 Genetika i Seleksiya
 Genome
 Gerontology
 Gesunde Pflanzen
 Gewasbescherming
 Gigena i Sanitariya
 Giornale Italiano di Entomologia
 Glycoconjugate Journal
 Gorskostopanska Nauka
 Grøn Viden, Landbrug
 Graellsia
 Grass and Forage Science
 Great Basin Naturalist
 Great Lakes Entomologist
 Groenten en Fruit
 Ground Water
 Ground Water Monitoring Review
 Gujarat Agricultural University Research Journal
 Handbooks for the Identification of British Insects
 Haryana Agricultural University Journal of Research
 Haryana Journal of Horticultural Sciences
 Hassadeh
 Hearing Research
 Helsingin Yliopiston Ympäristönsuojelun Laitoksen Julkaisu
 Herba Hungarica
 Hercynia
 Hereditas (Landskrona)
 Heredity
 Highlights of Agricultural Research in Ontario
 Hilgardia
 Himachal Journal of Agricultural Research
 Hindustan Antibiotics Bulletin
 Histochemistry
 Hojas de Frijol
 Holarctic Ecology
 Holly Society Journal
 Holz als Roh- und Werkstoff
 Home Economics Research Journal

Honeybee Science
Horticultura Brasileira
Horticultural Reviews
HortScience
Human Toxicology
ICRISAT Information Bulletin
IDA Development Anthropology Network
IDIA, Instituto Nacional de Tecnología Agropecuaria
IFE-Berichte aus Forschung und Entwicklung
IICA Miscellaneous Publication, Inter-American Institute for Cooperation on Agriculture
Illinois Natural History Survey Biological Notes
Immunopharmacology
In Vitro Cellular & Developmental Biology
Indian Agriculturist
Indian Cocoa, Arecanut and Spices Journal
Indian Coconut Journal (Cochin)
Indian Coffee
Indian Farming
Indian Forester
Indian Journal of Agricultural Chemistry
Indian Journal of Agricultural Research
Indian Journal of Agricultural Sciences
Indian Journal of Agronomy
Indian Journal of Animal Research
Indian Journal of Animal Sciences
Indian Journal of Applied and Pure Biology
Indian Journal of Entomology
Indian Journal of Experimental Biology
Indian Journal of Forestry
Indian Journal of Genetics & Plant Breeding
Indian Journal of Horticulture
Indian Journal of Medical Research
Indian Journal of Mycology and Plant Pathology
Indian Journal of Nematology
Indian Journal of Plant Pathology
Indian Journal of Plant Physiology
Indian Journal of Plant Protection
Indian Journal of Pulses Research
Indian Journal of Virology
Indian Perfumer
Indian Phytopathology
Indian Sugar
Industrie Alimentari
Information Bulletin - Citrus and Subtropical Fruit Research Institute
Information Report - Canadian Forestry Service-Maritimes
Information Report - Forest Pest Management Institute, Canadian Forestry Service
Information Report - Newfoundland Forestry Centre, Canadian Forestry Service
Information Report - Northern Forestry Centre, Canadian Forestry Service
Information Report - Pacific Forestry Centre, Canadian Forestry Service
Information Report - Petawawa National Forestry Institute, Canadian Forestry Service
Information Series - Virginia Polytechnic Institute and State University, College of Agriculture and Life Sciences
Informations-Forêt
Informatore Agrario
Informatore Fitopatologico
Informe Agropecuario (Belo Horizonte)]
Informe de Investigación - División de Ciencias Agropecuarias y Maritimas, Instituto Tecnológico y de Estudios Superiores de Monterrey, Mexico
Infos (Paris)
Insect Biochemistry
Insect Knowledge
Insect Liberations in Canada, Parasites and Predators
Insect Science and its Application
Insectes Sociaux
Insecticide and Acaricide Tests
International Arachis Newsletter
International Chickpea Newsletter
International Journal for Parasitology
International Journal of Acarology
International Journal of Biochemistry
International Journal of Dermatology
International Journal of Environmental Analytical Chemistry
International Journal of Environmental Studies
International Journal of Food Microbiology
International Journal of Health Physics
International Journal of Insect Morphology & Embryology
International Journal of Invertebrate Reproduction and Development
International Journal of Peptide and Protein Research
International Journal of Radiation Applications and Instrumentation. Part A, Applied Radiation and Isotopes
International Journal of Remote Sensing
International Journal of Tropical Agriculture
International Journal of Tropical Plant Diseases
International Pigeonpea Newsletter
International Rice Research Newsletter
Internationale Agrarindustrie Zeitschrift
Internationale Revue der Gesamten Hydrobiologie
Intervirolgy
Invertebrate Reproduction and Development
Invertebrate Taxonomy
Investigación Agraria, Producción y Protección Vegetales
IPM Practitioner
Iranian Journal of Agricultural Sciences
Iraqi Journal of Agricultural Sciences, 'ZANCO'
Irish Naturalists' Journal
ISCI Journal, Indian Society for Cotton Improvement
Isotope and Radiation Research
Israel Journal of Botany
Israel Journal of Entomology
Israel Journal of Zoology
Italia Agricola
Italian Journal of Food Science
Izvestiya Akademii Nauk Estonskoj SSR, Biologiya
Izvestiya Akademii Nauk Kazakhskoj SSR. Seriya Biologicheskaya
Izvestiya Akademii Nauk Moldavskoj SSR. Seriya Biologicheskikh i Khimicheskikh Nauk
Izvestiya Akademii Nauk SSSR. Seriya Biologicheskaya
Izvestiya Akademii Nauk Tadzhikskoj SSR, Biologicheskikh Nauk
Izvestiya Akademii Nauk Turkmenkoj SSR. Seriya Biologicheskikh Nauk
Izvestiya Sibirskogo Otdeleniya Akademii Nauk SSSR, Biologicheskikh Nauk
Izvestiya Timiryazevskoj Sel'skokhozyaistvennoj Akademii
Jahrbuch für Morphologie und Mikroskopische Anatomie. 2. Abteilung, Zeitschrift für Mikroskopisch- Anatomische Forschung
Jahresbericht - Biologische Bundesanstalt für Land- und Forstwirtschaft in Berlin und Braunschweig
Japan Pesticide Information
Japanese Journal of Applied Entomology and Zoology
Japanese Journal of Breeding
Japanese Journal of Ecology
Japanese Journal of Entomology
Japanese Journal of Industrial Health
Japanese Journal of Nematology
Japanese Journal of Tropical Agriculture
Japanese Journal of Veterinary Science
JAPCA, Journal of the Air & Waste Management Association
JARQ, Japan Agricultural Research Quarterly
Jiangsu Journal of Agricultural Sciences
Journal - American Rhododendron Society
Journal - Association of Official Analytical Chemists
Journal of Advanced Zoology
Journal of African Zoology
Journal of Agricultural and Food Chemistry
Journal of Agricultural Engineering Research
Journal of Agricultural Entomology
Journal of Agricultural Research (Lahore)
Journal of Agricultural Research of China
Journal of Agricultural Science
Journal of Agricultural Science in Finland
Journal of Agricultural Science, Tokyo Nogyo Daigaku
Journal of Agriculture and Forestry
Journal of Agriculture and Water Resources Research, Plant Production
Journal of Agriculture of the University of Puerto Rico
Journal of Agriculture, Western Australia
Journal of Allergy and Clinical Immunology
Journal of Analytical Chemistry of the USSR
Journal of Animal Ecology
Journal of Antibiotics
Journal of Aphidology
Journal of Applied Bacteriology
Journal of Applied Ecology
Journal of Applied Entomology
Journal of Applied Probability
Journal of Applied Seed Production
Journal of Aquatic Plant Management
Journal of Arachnology
Journal of Arboriculture
Journal of Arid Environments
Journal of Bacteriology
Journal of Bamboo Research
Journal of Beijing Forestry University
Journal of Bengal Natural History Society
Journal of Biochemistry
Journal of Biogeography
Journal of Biological Chemistry
Journal of Biological Control
Journal of Biological Curation
Journal of Biological Photography
Journal of Biological Rhythms
Journal of Biological Sciences Research
Journal of Biosciences
Journal of Biotechnology

- Journal of Cell Science
 Journal of Chemical Ecology
 Journal of Chromatographic Science
 Journal of Chromatography
 Journal of Coffee Research
 Journal of Comparative Pathology
 Journal of Comparative Physiology. A, Sensory, Neural, and Behavioral Physiology
 Journal of Comparative Physiology. B, Biochemical, Systemic, and Environmental Physiology
 Journal of Contaminant Hydrology
 Journal of Controlled Release
 Journal of Ecology (Beijing)
 Journal of Ecology (Oxford)
 Journal of Economic Entomology
 Journal of Entomological Research
 Journal of Entomological Science
 Journal of Environmental Biology
 Journal of Environmental Engineering
 Journal of Environmental Health
 Journal of Environmental Horticulture
 Journal of Environmental Management
 Journal of Environmental Science and Health. Part B, Pesticides, Food Contaminants, and Agricultural Wastes
 Journal of Ethology
 Journal of Evolutionary Biochemistry and Physiology
 Journal of Evolutionary Biology
 Journal of Experimental Biology
 Journal of Experimental Zoology
 Journal of Farming Systems
 Journal of Food Science
 Journal of Fujian Agricultural College
 Journal of General Microbiology
 Journal of General Virology
 Journal of Genetics
 Journal of Heredity
 Journal of High Resolution Chromatography and Chromatography Communications
 Journal of Histochemistry and Cytochemistry
 Journal of Horticultural Science
 Journal of Insect Behavior
 Journal of Insect Physiology
 Journal of Insect Science
 Journal of Invertebrate Pathology
 Journal of Liquid Chromatography
 Journal of Maharashtra Agricultural Universities
 Journal of Mathematical Biology
 Journal of Medical Entomology
 Journal of Microbiological Methods
 Journal of Microscopy
 Journal of Molecular Biology
 Journal of Molluscan Studies
 Journal of Morphology
 Journal of Nanjing Agricultural University
 Journal of Nanjing Forestry University
 Journal of Nanjing University, Natural Sciences edition
 Journal of Natural History
 Journal of Natural Products
 Journal of Nematology
 Journal of Neurobiology
 Journal of Neurochemistry
 Journal of Neurocytology
 Journal of Neuroscience
 Journal of Northeast Forestry University
 Journal of Nuclear Agriculture and Biology
 Journal of Nutrition
 Journal of Organic Chemistry
 Journal of Parasitology
 Journal of Pesticide Science
 Journal of Pharmacy and Pharmacology
 Journal of Phytopathology
 Journal of Plant Nutrition
 Journal of Plantation Crops
 Journal of Production Agriculture
 Journal of Protozoology
 Journal of Radioanalytical and Nuclear Chemistry, Letters
 Journal of Range Management
 Journal of Research APAU
 Journal of Research on the Lepidoptera
 Journal of Research, Punjab Agricultural University
 Journal of Shenyang Agricultural University
 Journal of Social Studies (Dhaka)
 Journal of Soil Science
 Journal of South China Agricultural University
 Journal of Steroid Biochemistry
 Journal of Stored Products Research
 Journal of Submicroscopic Cytology and Pathology
 Journal of Sugar Beet Research
 Journal of Sustainable Agriculture
 Journal of Taiwan Museum
 Journal of the Agricultural Society of Trinidad and Tobago
 Journal of the American Mosquito Control Association
 Journal of the American Society for Horticultural Science
 Journal of the Andaman Science Association
 Journal of the Arizona-Nevada Academy of Science
 Journal of the Australian Entomological Society
 Journal of the Australian Institute of Agricultural Science
 Journal of the Bombay Natural History Society
 Journal of the Chemical Society, Perkin Transactions I
 Journal of the East Africa Natural History Society and National Museum
 Journal of the Egyptian Society of Parasitology
 Journal of the Entomological Society of British Columbia
 Journal of the Entomological Society of Iran
 Journal of the Entomological Society of Southern Africa
 Journal of the Faculty of Agriculture, Hokkaido University
 Journal of the Faculty of Agriculture, Kyushu University
 Journal of the Food Hygienic Society of Japan
 Journal of the Indian Society for Cotton Improvement
 Journal of the Iowa Academy of Science
 Journal of the Kansas Entomological Society
 Journal of the Korean Agricultural Chemical Society
 Journal of the Lepidopterists' Society
 Journal of the Mississippi Academy of Sciences
 Journal of the National Science Council of Sri Lanka
 Journal of the New York Entomological Society
 Journal of the Rio Grande Valley Horticultural Society
 Journal of the Royal Society of New Zealand
 Journal of the Science of Food and Agriculture
 Journal of the Science Society of Thailand
 Journal of the Society of Plant Protection of North Japan
 Journal of the University of Kuwait, Science
 Journal of Theoretical Biology
 Journal of Thermal Biology
 Journal of Toxicology and Environmental Health
 Journal of Toxicology, Clinical Toxicology
 Journal of Tropical Ecology
 Journal of Tropical Forestry
 Journal of Ultrastructure and Molecular Structure Research
 Journal of Virological Methods
 Journal of Virology
 Journal of Wildlife Management
 Journal of Zoology
 Kaen Kaset = Khon Kaen Agriculture Journal
 Kasetsart Journal, Natural Sciences
 Kenya Coffee
 Keys to the Fauna of the USSR
 Khemoretseptsiya Nasekomykh
 Khimiko-Farmatsevticheskiĭ Zhurnal
 Khimiya v Sel'skom Khozyaistve
 Khlopok
 Koedoe
 Kontyû
 Korean Journal of Applied Entomology
 Korean Journal of Crop Science
 Korean Journal of Entomology
 Kulturpflanze
 Laboratory Microcomputer
 Lancet (British edition)
 Landschaft + Stadt
 Landwirtschaft Schweiz
 Landwirtschaftliches Jahrbuch der Schweiz
 Latin American Perspectives
 Lebensmittel-Wissenschaft & Technologie
 Lecture Notes in Statistics
 Legume Research
 Lesnictvi
 Lesnoe Khozyaistvo
 Lesovedenie
 Letters in Applied Microbiology
 Liebigs Annalen der Chemie
 Life Sciences
 Lindleyana
 Lotus Newsletter
 Louisiana Agriculture
 Lucrări Ştiinţifice, Institutul Agronomic 'Nicolae', Balcescu Bucureşti, Seria A, Agronomie
 Lucrări Ştiinţifice, Institutul Agronomic Timişoara, Agronomie
 Macchine e Motori Agricoli-IMA-II Trattorista
 Madoqua
 Madras Agricultural Journal
 Magazine, College of Agriculture, Nagpur
 Mainzer Naturwissenschaftliches Archiv
 Maize Genetics Cooperation News Letter
 Majalah Perusahaan Gula
 Malacologia
 Malayan Nature Journal
 Malaysian Agricultural Journal
 Manejo Integrado de Plagas
 MAPPS Newsletter
 Marburger Entomologische Publikationen
 MARDI Research Journal

- Marine Pollution Bulletin
 Materiały Sesji Instytutu Ochrony Roślin
 Material und Organismen
 Maydica
 MBL Lectures in Biology
 Mechanisms of Ageing and Development
 Mededelingen van de Faculteit Landbouwwetenschappen, Rijksuniversiteit Gent
 Medical Toxicology and Adverse Drug Experience
 Medicinal & Aromatic Plants Abstracts
 Meditsinskaya Parazitologiya i Parazitarnye Bolezni
 Medycyna Weterynaryjna
 Memoirs of the Entomological Society of Canada
 Memoirs of the Entomological Society of India
 Memoirs of the Faculty of Agriculture, Kagoshima University
 Memoirs of the Queensland Museum
 Memorabilia Zoologica
 Memorie della Società Entomologica Italiana
 Menara Perkebunan
 Mesopotamia Journal of Agriculture
 Metodiky pro Závádění Výsledků Výzkumu do Zemědělské Praxe
 Mezőgazdaság Kemizálása
 Microbiologica
 Microbiologica Sinica
 Microbiology (China)
 Microbiology (New York)
 Microchemical Journal
 Microscopy and Analysis
 Miscelanea, Fundación Miguel Lillo
 Miscellaneous Publication of the National Institute of Agro-Environmental Sciences
 Miscellaneous Publications of the Entomological Society of America
 Miscellaneous Report - Great Lakes Forest Research Centre, Forestry Canada
 Miscellaneous Report - Great Lakes Forestry Centre, Canadian Forestry Service
 Miscellaneous Report - Ontario Region, Great Lakes Forestry Centre, Forestry Canada
 Mitteilungen aus dem Zoologischen Museum in Berlin
 Mitteilungen aus der Biologischen Bundesanstalt für Land- und Forstwirtschaft Berlin-Dahlem
 Mitteilungen der Deutschen Bodenkundlichen Gesellschaft
 Mitteilungen der Deutschen Gesellschaft für Allgemeine und Angewandte Entomologie
 Mitteilungen der Entomologischen Gesellschaft Basel
 Mitteilungen der Schweizerischen Entomologischen Gesellschaft
 Mitteilungen der Sektion Bienen, Forschungsanstalt für Milchwirtschaft, Liebfeld
 Mokuzai Gakkaishi = Journal of the Japan Wood Research Society
 Molecular and General Genetics
 Molecular Microbiology
 Monografías del Instituto de Biología, Universidad Nacional Autónoma de México
 Monograph - Agricultural Experiment Stations, University of Florida
 Monograph - British Crop Protection Council
 Monograph - British Plant Growth Regulator Group
 Monthly Bulletin of the Bermuda Department of Agriculture and Fisheries
 Moscow University Biological Sciences Bulletin
 Mühle + Mischfuttertechnik
 Mushroom Journal
 Mutagenesis
 Mutation Research, Fundamental and Molecular Mechanisms of Mutagenesis
 Mutation Research, Genetic Toxicology Testing
 Mutation Research, Mutation Research Letters
 Mutation Research, Reviews in Genetic Toxicology
 Mycologia
 Mycological Research
 Mycopathologia
 Myforest
 Mysore Journal of Agricultural Sciences
 Nachrichtenblatt des Deutschen Pflanzenschutzdienstes
 Nachrichtenblatt für den Pflanzenschutz in der DDR
 Nahrung
 National Academy Science Letters
 Natural Enemies of Insects
 Natural Science Journal of Hunan Normal University
 Naturaliste Canadien
 Naturalists' Handbooks
 Nature (London)
 Naturwissenschaften
 Nauchno-Tekhnicheskii Byulleten' Vsesoyuznogo Ordena Lenina i Ordena Druzhby Narodov Nauchno-Issledovatel'skogo Instituta Rasteniyevodstva imeni N.I. Vavilova
 Nauchnye Doklady Vysshego Shkoly, Biologicheskije Nauki
 Nederlands Bosbouw tijdschrift
 Nematologica
 Nematology Newsletter
 Netherlands Journal of Agricultural Science
 Netherlands Journal of Plant Pathology
 Netherlands Journal of Zoology
 Neuropharmacology
 Neurotoxicology and Teratology
 New Botanist
 New Forests
 New Phytologist
 New Scientist
 New Zealand Agricultural Research
 New Zealand Entomologist
 New Zealand Journal of Agricultural Research
 New Zealand Journal of Crop and Horticultural Science
 New Zealand Journal of Experimental Agriculture
 New Zealand Journal of Zoology
 Nigerian Journal of Entomology
 Ningxia Agricultural and Forestry Science and Technology
 Nippon Nogeikagaku Kaishi = Journal of the Agricultural Chemical Society of Japan
 Nogaku Kenkyu
 Nordisk Jordbruksforskning
 Norsk Landbruksforskning
 North Carolina Flower Growers' Bulletin
 North Dakota Farm Research
 Northern Journal of Applied Forestry
 Northwest Science
 Norwegian Journal of Agricultural Sciences
 Note Technique du Centre de Recherches Agronomiques de l'État, Gembloux
 Nouvelle Revue d'Entomologie
 Nova Hedwigia
 Növényvédelem
 Nucleic Acids Research
 Nucleus (Calcutta)
 Occasional Paper - National Horticultural Research Institute, Ibadan
 Occasional Papers on Systematic Entomology
 Ochrona Roślin
 Oecologia
 Ohio Journal of Science
 Oikos
 Oléagineux
 Oriental Insects
 Oryza
 Outlook on Agriculture
 Oxford Surveys in Evolutionary Biology, Biological Sciences
 Pacific Science
 Pakistan Cottons
 Pakistan Journal of Agricultural Research
 Pakistan Journal of Forestry
 Pakistan Journal of Scientific and Industrial Research
 Pakistan Journal of Zoology
 Pan-Pacific Entomologist
 Parasitica
 Parasitology
 Parasitology Research
 Parazitologiya
 PCT International Patent Application
 Peanut Science
 Pedobiologia
 Pelita Perkebunan
 Pemberitaan Penelitian Tanaman Industri
 Pennsylvania Fruit News
 Peptides
 Pertanika
 Pesquisa Agropecuária Brasileira
 Pesquisa em Andamento - Empresa de Pesquisa, Assistência Técnica e Extensão Rural de Mato Grosso do Sul, EMPAER, Brazil
 Pest Control
 Pest Control Technology
 Pest Leaflet - Pacific Forestry Centre, Forestry Canada
 Pesticide Biochemistry and Physiology
 Pesticide Outlook
 Pesticide Science
 Pesticides
 Pflanzenschutz (Wien)
 Pflanzenschutzberichte
 Pflanzenschutzmittel-Verzeichnis. Teil 1, Ackerbau - Wiesen und Weiden - Hopfenbau - Sonderkulturen - Nichtkulturen - Gewässer
 Pflanzenschutzmittel-Verzeichnis. Teil 2, Gemüsebau - Obstbau - Zierpflanzenbau
 Pflanzenschutzmittel-Verzeichnis. Teil 5, Vorratsschutz
 Pflanzenschutzmittel-Verzeichnis. Teil 6, Anerkannte Pflanzenschutz- und Vorratsschutzgeräte
 Pharmacology and Therapeutics
 Pharmazie
 Philippine Agriculturist
 Philippine Entomologist
 Philippine Journal of Crop Science
 Philosophical Transactions of the Royal Society of London. Series B, Biological Sciences
 Physiological Entomology

- Physiological Zoology
Phytochemistry
Phytoma
Phyton (Horn)
Phytoparasitica
Phytopathologia Mediterranea
Phytopathology
Phytophylactica
Phytoprotection
Pirineos
PKV Research Journal
Plant and Soil
Plant Breeding
Plant Breeding Reviews
Plant Cell Incompatibility Newsletter
Plant Disease
Plant Pathology
Plant Protection Bulletin (Faridabad)
Plant Protection Bulletin, Taiwan
Plant Protection News
Plant Protection Quarterly
Plant Quarantine Leaflet, Australia
Plant Research and Development
Plant Systematics and Evolution
Planta Medica
Planter
PLANTI News
Plodoovoshchnoe Khozyatstvo
Poljoprivredna Znanstvena Smotra
Polskie Pismo Entomologiczne
Potato Research
Poultry Science
Prace Naukowe Instytutu Ochrony Roślin
Probleme de Protecția Plantelor
Problems of Desert Development
Proceeding of the National Academy of Sciences of the United States of America
Proceedings - Annual Meeting, Massachusetts Fruit Growers' Association Inc.
Proceedings and Papers of the Annual Conference of the California Mosquito and Vector Control Association
Proceedings of Faculty of Agriculture, Kyushu Tokai University
Proceedings of the Arkansas Academy of Science
Proceedings of the Association for Plant Protection of Kyushu
Proceedings of the Biological Society of Washington
Proceedings of the Entomological Society of Ontario
Proceedings of the Entomological Society of Washington
Proceedings of the Hawaiian Entomological Society
Proceedings of the Helminthological Society of Washington
Proceedings of the Indian Academy of Sciences, Animal Sciences
Proceedings of the Indian National Science Academy. Part B, Biological Sciences
Proceedings of the Indiana Academy of Science
Proceedings of the Interamerican Society for Tropical Horticulture
Proceedings of the Kansai Plant Protection Society
Proceedings of the Koninklijke Nederlands Akademie van Wetenschappen. Series C, Biological and Medical Sciences
Proceedings of the Linnean Society of New South Wales
Proceedings of the National Academy of Sciences of the United States of America
Proceedings of the National Science Council, Republic of China. Part B, Life Sciences
Proceedings of the New Zealand Weed and Pest Control Conference
Progress Report - Texas Agricultural Experiment Station
Progressive Farming
Progressive Horticulture
Prophyta
Protoplasma
PSP Pflanzenschutz Praxis
Psyche (Cambridge, Mass)
Publication - Agriculture Canada (English ed.)
Publication - Central Highlands Rural Development Project, Risabab
Punjab Horticultural Journal
Pyrethrum Post
Quaderni della Scuola di Specializzazione in Viticoltura ed Enologia
Quaestiones Entomologicae
Quantitative Structure - Activity Relationships
Quarterly Journal of International Agriculture
Quarterly Newsletter - Asia and Pacific Plant Protection Commission
Queensland Agricultural Journal
Queensland Journal of Agricultural and Animal Sciences
Queensland Naturalist
RACHIS
Radovi - Institut za Topolarstvo
RAFI Communiqué
Rapport - Norsk Institutt for Skogforskning
Rapport - Rijksinstituut voor Onderzoek in de Bos- en Landschap-sbouw 'De Dorschkamp', Wageningen
Rastitel'nye Resursy
Redia
Reference Book - Ministry of Agriculture, Fisheries and Food
Regulated Rivers
Regulatory Toxicology and Pharmacology
Report - Division of Entomology, CSIRO
Report - Forest Pest Management/Methods Application Group, USDA Forest Service
Report - Northern Region, USDA Forest Service
Report of the Taiwan Sugar Research Institute
Report on Forest Research, Forestry Commission
Reproduction, Nutrition, Development
Research Report from the National Institute for Environmental Studies, Japan
Research and Development Reporter
Research Bulletin - Tainan District Agricultural Improvement Station
Research Bulletin - University of Georgia, College of Agriculture, Experiment Stations
Research Bulletin of the Panjab University, Science
Research Bulletin of the Plant Protection Service, Japan
Research Circular - Ohio Agricultural Research and Development Center
Research Extension Series - Hawaii Institute of Tropical Agriculture and Human Resources
Research Information Note - Forestry Commission, UK
Research Monitor - Department of Agriculture, Thailand
Research Note - Intermountain Research Station, USDA Forest Service
Research Note - Pacific Northwest Research Station, USDA Forest Service
Research Report - Agribusiness & Economics Research Unit, Lincoln College
Research Report - Agricultural Experiment Station, Division of Agriculture, Oklahoma State University
Research Report - Mississippi Agricultural and Forestry Experiment Station
Research Report from the National Institute for Environmental Studies, Japan
Research Reports of the Forestry Research Institute (Seoul)
Research Reports of the Kochi University, Agricultural Science
Research Reports of the Rural Development Administration, Agricultural Engineering & Farm Management
Research Reports of the Rural Development Administration, Agricultural Engineering, Farm Management, Sericulture, Farm Products Utilization and Mycology
Research Reports of the Rural Development Administration, Biotechnology
Research Reports of the Rural Development Administration, Crop Protection
Research Reports of the Rural Development Administration, Crops
Research Reports of the Rural Development Administration, Horticulture
Research Reports of the Rural Development Administration, Rice
Research Reports of the Rural Development Administration, Sericulture & Farm Products Utilization & Mycology
Research Reports of the Rural Development Administration, Upland & Industrial Crops
Research Series - Arkansas Agricultural Experiment Station
Researches on Population Ecology
Resúmenes Analíticos sobre Pastos Tropicales
Review of Agricultural Entomology
Reviews of Environmental Contamination and Toxicology
Revista Arvore
Revista Biologia
Revista Brasileira de Entomologia
Revista Brasileira de Genética
Revista Brasileira de Zoologia
Revista Cafetalera
Revista Ceres
Revista Cubana de Medicina Tropical
Revista da Sociedade Brasileira de Zootecnia
Revista de Agricultura (Piracicaba)
Revista de Biología Tropical
Revista de Ciencias Agropecuarias (Córdoba)
Revista de la Facultad de Agronomía (Universidad de Buenos Aires)
Revista de la Facultad de Agronomía, Universidad Central de Venezuela
Revista de la Facultad de Agronomía, Universidad Nacional de la Plata
Revista de la Sociedad Entomológica Argentina
Revista de Protección Vegetal
Revista do Centro de Ciências Rurais, Universidade Federal de Santa Maria
Revista Forestal Baracoa
Revista Frutícola
Revista Nicaraguense de Entomología
Revista Theobroma
Revue d'Écologie et de Biologie du Sol
Revue d'Entomologie du Québec
Revue de l'Agriculture

Revue de Médecine Vétérinaire
Revue de Nématologie
Revue de Zoologie Africaine
Revue Française d'Apiculture
Revue Française d'Entomologie
Revue Horticole Suisse
Revue Roumaine de Biologie, Biologie Animale
Revue Suisse d'Agriculture
Revue Suisse de Viticulture, d'Arboriculture et d'Horticulture
Revue Suisse de Zoologie
Rice Research Newsletter
Rivista di Agricoltura Subtropicale e Tropicale
Rivista di Viticoltura e di Enologia
Roczniki Nauk Rolniczych, Seria E, Ochrona Roślin
Rostlinná Výroba
Rural Research
Rural Research in CSIRO
SACCAR Workshop Series, Southern African Centre for Cooperation in Agricultural Research
Sakharnaya Svekla
Samaru Journal of Agricultural Research
Sarsia
Sbornik Nauchnykh Trudov po Prikladnoi Botanike, Genetike i Selektse
Sbornik UVTIZ, Genetika a Šlechtění
Sbornik UVTIZ, Zahradnictví
Scandinavian Journal of Work, Environment & Health
Schriftenreihe des Bundesministers für Ernährung, Landwirtschaft und Forsten. Reihe A, Angewandte Wissenschaft
Schweizerische Landwirtschaftliche Forschung
Schweizerische Zeitschrift für Forstwesen
Schweizerische Zeitschrift für Obst- und Weinbau
Science (Washington)
Science Bulletin of the Faculty of Agriculture, Kyushu University
Science in China. Series B, Chemistry, Life Sciences & Earth Sciences
Science in New Guinea
Science Monograph - Agricultural Experiment Station, University of Wyoming
Science of the Total Environment
Science Progress
Scientia Agricultura Sinica
Scientia Horticulturae
Scientia Silvae Sinicae
Seed Research
Seeds & Farms
Şeker
Sel'skokhozyaistvennaya Biologiya
Seleksiya i Semenovodstvo (Moskva)
Selezione Veterinaria
Selskostopanska Nauka
Selskostopanska Tekhnika
Semina (Londrina)
Senckenbergiana Biologica
Shelk
Shell Agriculture
SHILAP, Revista de Lepidopterología
SHILAP, Sociedad Hispano-Luso-Americana de Lepidopterología
Shokuhin Eiseigaku Zasshi = Journal of the Food Hygienic Society of Japan
Sibirskii Vestnik Sel'skokhozyaistvennoi Nauki
Silva Fennica
Simiente
Singapore Journal of Primary Industries
Smithsonian Contributions to Zoology
Social Science & Medicine
Sociobiology
Soil & Tillage Research
Soil Biology & Biochemistry
Soil Science and Plant Nutrition
Soil Science Society of America Journal
Solidarity
Solomon Islands' Forest Record
Sorghum Newsletter
South African Journal for Enology and Viticulture
South African Journal of Botany
South African Journal of Science
South African Medical Journal
South Indian Horticulture
Southern Cooperative Series Bulletin
Southwestern Entomologist
Southwestern Naturalist
Sovetskaya Meditsina
Soviet Agricultural Sciences
Soviet Biotechnology
Soviet Electrical Engineering
Soviet Journal of Ecology
Soviet Meteorology and Hydrology
Soybean Genetics Newsletter
Soybean Science
Sozialistische Forstwirtschaft
Special Bulletin of the College of Agriculture, Utsunomiya University
Special Publication - Royal Society of Chemistry
Sphecos
Sri Lanka Journal of Tea Science
SSSA Special Publication
Staff Paper - Department of Agricultural and Applied Economics, University of Minnesota
Stain Technology
Steroids
Sting
Studies in Conservation
Studies in Mycology
Studii si Cercetări de Biologie, Seria Biologie Animala
Subtropica
Subtropicheskie Kul'tury
Sugar Cane
Sugar y Azucar
Sveriges Utsädesförenings Tidskrift
Swedish Journal of Agricultural Research
Sylvatrop
Sylvan
Systematic Entomology
Taiwan Agriculture Bimonthly
Taiwan Museum Special Publication Series
Taiwan Shengli Bowuguan Banniankan
Tea
Tea Bulletin
Technical Bulletin - Agricultural Research Institute, Cyprus
Technical Bulletin - Food and Fertilizer Technology Center
Technical Bulletin - Mississippi Agricultural and Forestry Experiment Station
Technical Bulletin - North Carolina Agricultural Research Station
Technical Bulletin - NSW Agriculture & Fisheries
Technical Bulletin - United States Department of Agriculture
Technical Communication - Department of Agriculture and Water Supply, South Africa
Technical Note - Canadian Forestry Service-Maritimes
Technical Note - Forest Pest Management Institute, Canada
Technical Note - World Meteorological Office
Technical Paper - Commonwealth Science Council
Technical Report - Biological Control Centre, ICAR
Teknologi Koko-Kelapa
Teknologi Padi, MARDI
Teknologi Sayur-Sayuran
Terra e Sole
Tetrahedron
Tetrahedron Letters
Texas Journal of Science
Thai Journal of Agricultural Science
Theoretical and Applied Genetics
Theoretical Population Biology
Thorax
Tidsskrift for Planteavl
Tijdschrift voor Entomologie
Tissue & Cell
Tobacco International
Tobacco Research
Toxicity Assessment
Toxicology and Applied Pharmacology
Toxicology and Industrial Health
Toxicology Letters
Toxicon
Transactions of Indian Society of Desert Technology
Transactions of the American Entomological Society
Transactions of the American Microscopical Society
Transactions of the ASAE
Transactions of the Illinois State Academy of Science
Transactions of the Royal Society of South Australia Incorporated
Transactions of the Shikoku Entomological Society
Transactions of the Zimbabwe Scientific Association
Tree Planters' Notes
Trends in Ecology & Evolution
Tri-Ology
Tropical Agriculture
Tropical Agriculture Research Series
Tropical Ecology
Tropical Grasslands
Tropical Pest Management
Tropical Science
Trudy Akademii Nauk Litovskoi SSR, B
Trudy Gosudarstvennogo Nikitskogo Botanicheskogo Sada
Trudy Latviiskoi Sel'skokhozyaistvennoi Akademii
Trudy Zoologicheskii Institut, Akademii Nauk SSSR
Tsitologiya
Tsitologiya i Genetika
Türkiye Entomoloji Dergisi
Turrialba
Tutun Tobacco
Two and a Bud
United States Patent

- Universidad Hoy
 USSR Patent
 Utah Science
 Uttar Pradesh Journal of Zoology
 Uzbekskii Biologicheskii Zhurnal
 Växtskyddsnotiser
 Vědecké Práce Ovocnářské
 Vegetable Science
 Veliger
 Venus
 Verbondsnieuws voor de Belgische Sierteelt
 Verhandlungen der Deutschen Zoologischen Gesellschaft
 Verslagen en Mededelingen, Plantenziektenkundige Dienst,
 Wageningen
 Vestnik Akademii Meditsinskikh Nauk, SSSR
 Věstník Československé Společnosti Zoologické
 Vestnik Dermatologii i Venerologii
 Vestnik Sel'skokhozyaistvennoi Nauki (Moskva)
 Vestnik Zoologii
 Vesti Akademii Nauk BSSR. Seriya Biyagichnykh Nauk
 Veterinaria Argentina
 Veterinariya (Moskva)
 Veterinární Medicina
 Veterinary and Human Toxicology
 Vie et Milieu
 Vingnanam Journal of Science
 Virology (New York)
 Vita in Campagna
 Voprosy Virusologii
 Vrachebnoe Delo (Kiev)
 Waldhygiene
 Wasmann Journal of Biology
 Water Quality Bulletin
 Water Research (Oxford)
 Water Resources
 Water Resources Bulletin
 Water, Air, and Soil Pollution
 Weather
 Weed Research (Oxford)
 Weed Science
 Weed Technology
 Weedwatcher
 Wei Sheng Wu Hsueh Pao
 Western Journal of Medicine
 Weta
 Wetenschappelijke Mededeling van de Koninklijke Nederlandse
 Natuurhistorische Vereniging
 Wiadomości Parazytologiczne
 Wildlife Society Bulletin
 Wilson Bulletin
 Wissenschaftliche Zeitschrift - Martin-Luther-Universität Halle-Wit-
 tenberg, Mathematisch-Naturwissenschaftliche Reihe
 Wissenschaftliche Zeitschrift der Humboldt-Universität zu Berlin,
 Mathematisch - Naturwissenschaftliche Reihe
 Wissenschaftliche Zeitschrift der Humboldt-Universität zu Berlin,
 Reihe Agrarwissenschaften
 Wissenschaftliche Zeitschrift der Wilhelm-Pieck-Universität Rostock,
 Naturwissenschaftliche Reihe
 Xenobiotica
 ZANCO
 Zashchita Rastenii (Moskva)
 Zaštita Bilja
 Zavodskaya Laboratoriya
 Zeitschrift für Angewandte Zoologie
 Zeitschrift für Jagdwissenschaft
 Zeitschrift für Naturforschung, Section B, Chemical Sciences
 Zeitschrift für Naturforschung, Section C, Biosciences
 Zeitschrift für Pflanzenkrankheiten und Pflanzenschutz
 Zeitschrift für Vegetationstechnik
 Zeitschrift für Zoologische Systematik und Evolutionsforschung
 Zentralblatt für Bakteriologie, Mikrobiologie und Hygiene, B
 Zentralblatt für Mikrobiologie
 Zhejiang Agricultural Science
 Zhongguo Shiyongjun = Edible Fungi of China
 Zhurnal Obshchei Biologii
 Zierpflanzenbau
 Zoologica Scripta
 Zoological Catalogue of Australia
 Zoological Journal of the Linnean Society
 Zoological Record
 Zoological Science
 Zoologicheskii Zhurnal
 Zoologische Jahrbücher, Abteilung für Allgemeine Zoologie und
 Physiologie der Tiere
 Zoologische Mededelingen uitgegeven door het Rijksmuseum van
 Natuurlijke Historie te Leiden
 Zoologische Verhandlungen
 Zoologischer Anzeiger
 Zoomorphology
 Zootechnia
 Zuckerindustrie

Zuowu Pinzhong Ziyuan
 [Publication], International Development Research Centre, Canada



most 100 scientists/linguists in the 11 Bureaux of CABI's Information Services at Wallingford, UK, with help from associated organizations and individuals worldwide, abstract and index the significant research and development literature in agriculture, forestry and allied disciplines. Over 1,000 serials and many other publications are scanned, and approximately 130,000 bibliographic records are compiled each year. From this computerized database is derived a wide range of information services and products in hard copy and machine-readable form, designed to meet a variety of customer needs.

HARD COPY PRODUCTS

Abstract journals

The following abstract journals on specific disciplines, specialist crops or products, or particular livestock are published, mostly monthly or quarterly. Each has author and subject indexes, updated annually in a special issue of the journal.

Animal Science and Production

Animal Breeding Abstracts; Dairy Science Abstracts; Nutrition Abstracts & Reviews, Series B—Livestock Feeds & Feeding; Pig News & Information; Poultry Abstracts.

Veterinary Science and Parasitic Diseases

Parasitological Abstracts; Index Veterinarius; Parasitological Abstracts; Review of Medical & Veterinary Entomology; Review of Medical & Veterinary Mycology; Veterinary Bulletin.

Crop Science and Production

Crop Physiology Abstracts; Faba Bean Abstracts; Field Crop Abstracts; Forage Abstracts; Horticultural Abstracts; Irrigation & Drainage Abstracts; Maize Abstracts; Ornamental Horticulture; Plant Breeding Abstracts; Plant Growth Regulator Abstracts; Postharvest News and Information; Potato Abstracts; Rice Abstracts; Seed Abstracts; Soils & Fertilizers; Sorghum & Millets Abstracts; Soybean Abstracts; Wheat, Barley & Triticale Abstracts.

Forestry

Forest Abstracts; Forest Products Abstracts; Forestry Abstracts.

Plant Protection

Plant Control News & Information; Nematological Abstracts; Review of Agricultural Entomology; Review of Plant Pathology; Weed Abstracts.

Economics, Development and Sociology

Insurance, Recreation & Tourism Abstracts; Rural Development Abstracts; World Agricultural Economics & Rural Sociology Abstracts.

Machinery and Buildings

Agricultural Engineering Abstracts.

Human Nutrition

Nutrition Abstracts & Reviews, Series A—Human & Experimental.

Biotechnology/Biodeterioration

Biotech News & Information; Biodeterioration Abstracts.

Also published is a series of current awareness publications (CAB Prompts) on specific crops. Subject indexes are not provided. Titles in the series so far are: *Groundnuts* and *chickpeas/Pigeonpeas*. In addition, many retrospective compilations of abstracts (Annotated Bibliographies) on various topics are available on demand.

DI Service

DI (Selective Dissemination of Information) is a regular current awareness service based on the most recent input to the database. Subscribers decide their own search profile and receive search results at intervals of their choice, either as computer printout or on floppy discs suitable for most microcomputers. Airmail ensures fast delivery.

CAB Alerts

This is a special SDI service providing subscribers each month with the search results from standard profiles chosen by CABI. Numerous titles are available and the list is regularly updated to reflect new subject interests. Output is available on computer printout posted by airmail.

MACHINE-READABLE PRODUCTS AND SERVICES

Online Access

The machine-readable database, known as CAB ABSTRACTS, is publicly accessible online through DIALOG Information Services (USA), BRS Information Technologies (USA), ESA-IRS (Italy), DIMDI (GFR), JICST (Japan), CAN-OLE (Canada) and Tsukuba Daigaku (Japan). The whole database back to 1973 contains over 2 million records. Search aids include the CAB ABSTRACTS Online Manual, the CAB Thesaurus (1988 Edition) and the CAB International Serials Checklist (1988).

CAB ABSTRACTS on Compact Disc

The database is also available on CD-ROM (Compact Disc Read Only Memory). Volume one contains bibliographic citations and abstracts for 1984–86; the second volume contains the 1987–89 data. CD-ROM technology provides an online search capability without the worries of cost or telecommunication problems. An IBM or fully IBM-compatible PC, 640 K RAM, MS-DOS or PC-DOS version 2.1 or higher, and a CD-ROM player are needed. The SPIRS (SilverPlatter Information Retrieval System) software allows maximum search flexibility.

Magnetic tapes

Organizations with access to mini or mainframe computers may lease all or part of CAB ABSTRACTS on magnetic tape. Update tapes are issued monthly, and retrospective tapes as required.

OTHER PRODUCTS AND SERVICES

Document Delivery Service

Photocopies of originals of most articles included in the database are available from CABI Library Services, Silwood Park, Ascot, UK. Documents may also be ordered online via DIALOG's DIALORDER or ESA/IRS's PRIMORDIAL.

Books and serial publications

CABI publishes authoritative reference books, directories and serial publications, the latter including *Bulletin of Entomological Research*, *Outlook on Agriculture*, *Index of Current Research on Pigs*, *Distribution Maps of Pests*, *Distribution Maps of Plant Diseases*, *Bibliography of Systematic Mycology*, *Descriptions of Pathogenic Fungi & Bacteria*, *Index of Fungi*, and *Systema Ascomycetum*. CABI is a co-sponsor of the International Food Information Service which publishes *Food Science & Technology Abstracts*.

For further information, contact:

CAB International Wallingford, Oxon OX10 8DE, UK
Telephone: (0491) 32111
Telex: 847964 (COMAGG G)
Telefax: (0491) 33508

or

CAB International 845 North Park Avenue
Tucson, Arizona 85719, USA

Tel: 800/528-4841 (Toll-free) or 602/621-7897

or

The Maruzen Company Limited

(sole agent in Japan)

P.O. Box 5050 Tokyo International 100-31, Japan



CAB INTERNATIONAL

Wallingford, Oxon OX10 8DE, UK

Telephone: (0491) 32111 Telecom Gold/Dialcom: 84: CAU001

Telex: 847964 (COMAGG G) Fax: (0491) 33508

Director General: Don Mentz BAgSci, BEcon

Acting Director, Information Services: C.P. Ogbourne Bsc, PhD

Director, Scientific Services: D.J. Greenland MA, DPhil, DAgSc, FIBiol

Director, Systems: J.H. Gilmore BSc, MACS

Director, Administrative Services: T. Martin FCA

The Organization

CAB International (CABI) is an international, inter-governmental organization registered with the United Nations. It is owned and administered by its member governments; these currently number 29, but membership is open to all governments who wish to participate. Established in 1928, the organization provides information, scientific, and development services for agriculture and allied disciplines throughout the world.

Information Services

The main task of the Information Services, located at the CAB International Centre (CABIC) at Wallingford, is the creation of a bibliographic database of research on agriculture, forestry and allied disciplines, including social sciences and aspects of human medicine. Abstract journals derived from the database, and online access to it, provide a unique source of information for research scientists, development planners, educators and students. Subsidiary but growing tasks are the publication of primary journals and reference works, and training information professionals in developing countries.

The Accessions Unit acquires the relevant scientific and technical literature (ca 10,000 serials and over 5,000 other publications annually) for abstracting by almost 100 scientists/linguists in the following 11 Bureaux:

- Agricultural Economics
- Animal Breeding & Genetics
- Animal Health
- Dairy Science & Technology
- Nutrition
- Pastures & Field Crops
- Crop Protection
- Horticulture & Plantation Crops
- Plant Breeding & Genetics
- Soils
- Forestry

Further material is acquired and processed by collaborating or contracted organizations. Other staff coordinate work on specialized directories and databanks, and commission new books and primary journals. The Publications Unit is responsible for printing the journals and books, and the Marketing & Sales Division promotes and sells Information Services products and services world-wide (see inside back cover for details).

Scientific Services

CABI's Scientific Services consist of four institutes and two support services:

CAB International Institute of Entomology (CIE), Director Dr K.M. Harris, located at 56 Queen's Gate, London, and in the British Museum, Natural History.

CAB International Mycological Institute (CMI), Director fessor D.L. Hawksworth, located at Ferry Lane, London, adjacent to the Royal Botanic Gardens.

CAB International Institute of Parasitology (CIP), Director R. Muller, located at Winches Farm, St Albans, the station of the London School of Hygiene & Tropical Medicine.

These three Institutes provide an authoritative identification service for agricultural pests and other organisms, conduct research, implement projects, and provide training in fields of expertise.

CAB International Institute of Biological Control (CIBC), Director Dr D.J. Greathead, has its headquarters at Silwood Park, Ascot, the field station of Imperial College of Science and Technology, University of London. It has stations in Trinidad and Tobago, Switzerland, Pakistan, Kenya and Malaysia. It provides biocontrol services, conducts training and participates in integrated pest management programmes.

Development Services, (CDS), Head Mr D. Heydon, integrate the broad range of CABI expertise to provide advice and assistance with agricultural problems, but particularly those related to pest management and information services.

Library Services, Manager Mr C.J. Hamilton, have their headquarters with CIBC at Silwood Park, where the main Library is held, with additional literature collections at CIP, CDS and CABIC. Library Services operate a Document Delivery Service.

Systems

The Systems Division provides computing resources and services to all parts of CABI. It maintains a central computer facility with telecommunications access to seven remote sites, including four CABI Institutes. CABIC is served by a modern Local Area Network which provides access to its computers, and by advanced office automation facilities. The main computers are DEC VAX systems and the principal software systems are BASIS for data management, information retrieval and PAGER for typesetting.

The staff of 20 includes database production personnel, systems analysts, programmers and computer operators. The principal systems are for the production of the CAB bibliographic database and associated functions, plus accession control, subscription management and electronic publishing.

Copyright

© 1990 CAB INTERNATIONAL All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, mechanical, electronic, by photocopying, recording or otherwise without the prior written permission of CAB INTERNATIONAL.